



## Vladimir V. Piterbarg

Managing Director  
Global Head of Quantitative Analytics,  
Barclays Bank (London)

### *“Collateral, Funding, and Discounting”*

18 September 2012 (Tuesday), 17:45 – 18:45

European University at St.Petersburg  
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A seminar given by one of the best-known professionals of quantitative finance from the City of London will consist of two parts.

In the first part, Vladimir Piterbarg will address issues that are now emerging in derivative asset pricing post-crisis, when collateralisation, funding and discounting effects are taken into account.

He will argue that the only truly credit-risk-free assets in modern economy are those that are fully collateralised on a continuous basis. Piterbarg develops an asset pricing theory that uses such non-traditional “ingredients” as building blocks and, in particular, does not rely on the existence of a risk-free money market account. In particular, he develops a model of multi-currency collateral under the assumption that collateral can be instantaneously replaced, and looks at serious complications arising even for simplest derivatives when more realistic assumptions on collateral posting are considered. Piterbarg then looks broadly at how bank funding in general affects discounting, and extend his theory to uncollateralised and partially collateralised derivatives, linking it to previous work.

In the second part of the lecture, Piterbarg will tell the audience about a programme of graduate recruiting ran by the investment banking division of Barclays for quantitative analysts that is open to applicants from Russia.

The seminar is an event, unique in its publicity, taking place in Russia in general, and St.Petersburg, in particular.

**Who will benefit:** the seminar is primarily targeted at graduates of physics and mathematics departments, interested in applying their fundamental knowledge to various problems of modern finance, asset-pricing, derivatives, etc. Graduates of quantitatively strong finance and economics departments, as well as practicing risk-managers, fund-managers, derivative traders will benefit too.

**About the lecturer:** Vladimir V. Piterbarg, Managing Director, Global Head of Quantitative Analytics, Barclays Bank (London) – one of the leading theoreticians and practitioners of modern asset-pricing, a co-author of best-selling book in three-volumes entitled “Interest Rate Modelling” (Atlantic Financial Press, 2010), the holder of the Quant of the Year 2006 and 2011 awards according to the Risk Magazine and portal Risk.net.