**FROM EGG SHELL TO MECHANOCHEMICAL PREPARATION OF CALCIUM PHOSPHATES AND BIOMATERIALS**

1Andrzej Kałamarz, 2Zbigniew Najzarek and 3Teobald Kupka, Szymon Mycer

*1Alvana, Opole, Poland;*

*2Gorden Ltd., Białe Błota, 23, Azaliowa Street, Poland;*

*3University of Opole, Faculty of Chemistry, Opole, Poland*

The paper describes a new method of egg shell utilization by separation of outer, mineral layer and the inner, organic part. The separated components could be used in production of several products used in medicine, cosmetics and agriculture.

The key issue is related to mechano-chemical separation of both components of egg shell using specially constructed ultrafast mills. This process could be used to a new way of hydroxyapatite synthesis with initial nanostructure of bioreagents. The obtained products could compete and finally replace the currently available ones.

**References**

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