



January 4, 2015

Dear ICS members,

It is my great pleasure to announce that the 2014 ICS-ICL Prize for Technological Innovation will be awarded to Prof. Shlomo Magdassi of the Casali Center for Applied Chemistry, the Institute of Chemistry, the Hebrew University of Jerusalem, for developing the technology of conductive inks composed of silver nanoparticles for printed electronics.

Printed electronics refer to the application of printing technologies for the fabrication of electronic circuits and devices, particularly on flexible substrates to form flexible electronics. Magdassi has demonstrated the persistence needed to take the very long route from basic science all the way to successful commercialization. By patterning of nanometric silver particles he successfully replaced the widely used indium tin oxide (ITO) as a transparent conductive electrode, with a product that is devoid of the many problems of ITO, including the unstable market and unstable costs of indium, its brittleness and inflexibility. His technology enables the direct patterning of electrodes on glass and on plastic substrates by inkjet printing.



Prof. Shlomo Magdassi
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Magdassi's most recent invention of a new process for the synthesis of silver nanoparticles and conductive inks, and their utilization for printing of transparent conductors for touch screens was promptly licensed by the Hebrew University to two companies, Hyrax and Xjet and the latter already produced above 1000 liters of inks. Furthermore, on the basis of the transparent conductors technology he established a startup company, ClearJet, which have already signed contracts with Korean and US companies for the manufacturing of touch screens for smartphones and automotive panels. These scientific achievements were recently recognized by the Kaye Award for Innovation of the Hebrew University and the Untold News Award in the USA.

It is the second year that this prestigious prize, which is sponsored by ICL Innovation Ltd., is being awarded. The award ceremony will take place during the first day of the 80th ICS Annual Meeting in February 17, 2015.

Congratulations to Shlomo for his achievements!

Ehud Keinan



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