



December 24, 2015

Dear ICS members,

It is my great pleasure to announce that the 2015 ICS-ICL Prize for Technological Innovation will be awarded to Prof. Moshe Kol of Tel-Aviv University for his profound and lasting impact on the field metal-catalyzed olefin polymerization.

In the past 15 years Prof. Kol and his group have developed novel families of homogeneous catalysts for polymerization of alpha-olefins and the ring-opening polymerization of cyclic esters for the preparation of environmentally friendly plastics. They designed and synthesized new chelating ligands and their complexes with transition metals, as well as with main-group elements, and applied them as single-site catalysts in various transformations. Several of these novel catalysts are known worldwide as the Kol-type catalysts.

In 2000 they introduced the Salan-zirconium catalysts, which enabled the first living and isospecific polymerization of high-olefins at room temperature, and had a major effect on the worldwide research in this field. Their Salalen-titanium complexes and related families of catalysts had unique ability to direct incoming substrate molecules, and led to polypropylene with unprecedented isotacticity and a record-high melting point. In 2015 they also developed heteroselective aluminum catalysts for lactide polymerization that operate by alternating polymeryl-exchange between enantiomeric catalytic molecules. Their recently developed polypropylene catalysts led to an intensive collaboration with ExxonMobil Company.

Prof. Kol has published about 100 research articles, two book chapters and 17 patent applications, 13 of which in the past five years. His work has been cited over 4100 times with H-Index 40.



**Prof. Moshe Kol**  
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It is the third 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 81<sup>st</sup> ICS Annual Meeting on February 9, 2016.

Congratulations to Moshe (Shiko) for his achievements!



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