



November 10, 2019

Dear ICS members,

It is my pleasure to announce that the 2019 ICS-Adama Prize for Technological Innovation will be awarded to **Prof. N. Gabriel Lemcoff** of Ben-Gurion University of the Negev for his pioneering and groundbreaking work on light-induced catalytic olefin metathesis and 3D printing of polymers.



**Prof. N. Gabriel Lemcoff**  
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**Gabriel Lemcoff** was born in Buenos Aires in 1969 and emigrated to Israel in 1991 to live in Kibbutz Yakum with his wife Fabiana. He received his B.Sc. in Chemistry (1995) and Ph.D. (2002) from Tel-Aviv University, studying macromolecular diacetals under the supervision of Prof. Benzion Fuchs. His postdoctoral research (2002-2004) at the University of Illinois Urbana-Champaign with Prof. Steven C. Zimmerman focused on monomolecular imprinting in dendrimers. In 2004 he joined Ben-Gurion University of the Negev, where he was promoted to Full Professor in 2015. He served as Chairman of the Chemistry Department (2012-2016) and was one of the founders of the Marie-Curie Chemistry Program for gifted high school pupils, awarding them with credits towards B.Sc. chemistry degree at Ben-Gurion University.

Prof. Lemcoff's research interests span the fields of organic chemistry, organometallics and polymer chemistry. He specializes in the development of novel latent ruthenium catalysts for olefin metathesis and new functional macromolecular structures. He has pioneered single-chain collapse of polybutadiene like polymers by organometallic linkages. During the past decade, Prof. Lemcoff and his group have developed latent olefin metathesis catalysts for several applications including chromatic orthogonal sequences, divergent photochemical syntheses and additive manufacturing of ROMP derived polymers. One of their main breakthroughs in light induced olefin metathesis was the discovery in 2009 that S-chelated ruthenium benzylidenes could be activated by irradiation with UV-A light. They have developed a variety of different S-chelated and phosphite ligated ruthenium catalysts to advance stereolithographic 3D-printing of polydicyclopentadiene and derivatives. Over the past decade they have published 20 research articles, 2 reviews, 2 book chapters and 3 patents on the subject of light activated olefin metathesis and 3D printing of ROMP polymers.

The award ceremony will take place during the 85<sup>th</sup> ICS Annual Meeting in February 18, 2020.

Congratulations to Gabi for his achievements!



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