

# ICMAP 2018

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## **Prof. Alexander Fridman**

Nyheim Plasma Institute, Drexel University,

Philadelphia, USA



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**Alexander Fridman** is Nyheim Chair Professor of the Drexel University, Philadelphia, USA, and director of the Nyheim Plasma Institute. He made significant contribution to novel plasma approaches for material treatment, fuel conversion, hydrogen production, aerospace engineering, biology, environmental control, agriculture, and food processing.

Significant efforts of Prof. Fridman and his group are focused on development of Plasma Medicine, which is a revolutionary breakthrough research focused on direct plasma interaction with living tissues, direct plasma application for wound treatment, skin sterilization, blood coagulation and treatment of different diseases, not effectively treated before. Especially important results have been obtained recently in plasma stimulated treatment of cancer through stimulation of immune system. Prof. Fridman is one of the pioneers of Plasma Medicine, and Founding President of the International Society of Plasma Medicine.

Dr. Fridman worked and taught as a Professor and researcher in different National Laboratories and Universities of United States, France and Russia. He published 8 books and more than thousand scientific papers (with total citation index well exceeding 40,000), organized and chaired several major international plasma conferences.

Dr. Fridman received numerous awards, including International Plasma Medicine Award, Stanley Kaplan Distinguished Professorship in Chemical Kinetics and Energy Systems, George Soros Distinguished Professorship in Physics, Alma Mater Studiorum award, Chernobyl Nuclear Accident Medal, Dupont award, University of Illinois and Drexel University Research awards, Kurchatov Medal for Scientific Achievements in Nuclear and Plasma Sciences. Dr. Fridman together with the Nobel Prize laureate N.G. Basov received the State Prize of the USSR for discovery of selective stimulation of chemical processes in non-thermal plasma.