

Combustion and Diagnostics Laboratory



DEPARTMENT OF
AEROSPACE ENGINEERING

TECHNION
Israel Institute
of Technology

Research position available for M.Sc. and Ph.D. Students!
(Undergraduate projects also available)

Be part of the future of aerospace propulsion!
Conduct multi-disciplinary research to enable a zero-carbon propulsion future, explore ignition in hypersonic scramjet engines, and develop cutting edge optical diagnostics.



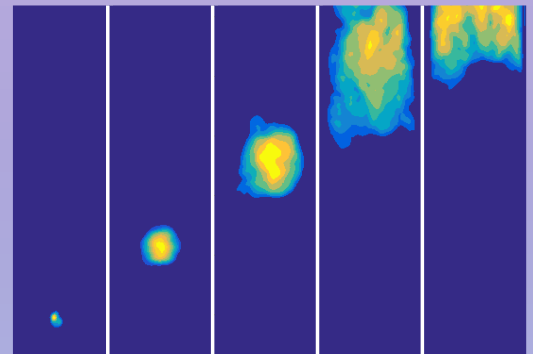
High-speed Combustion

Combustion Projects:

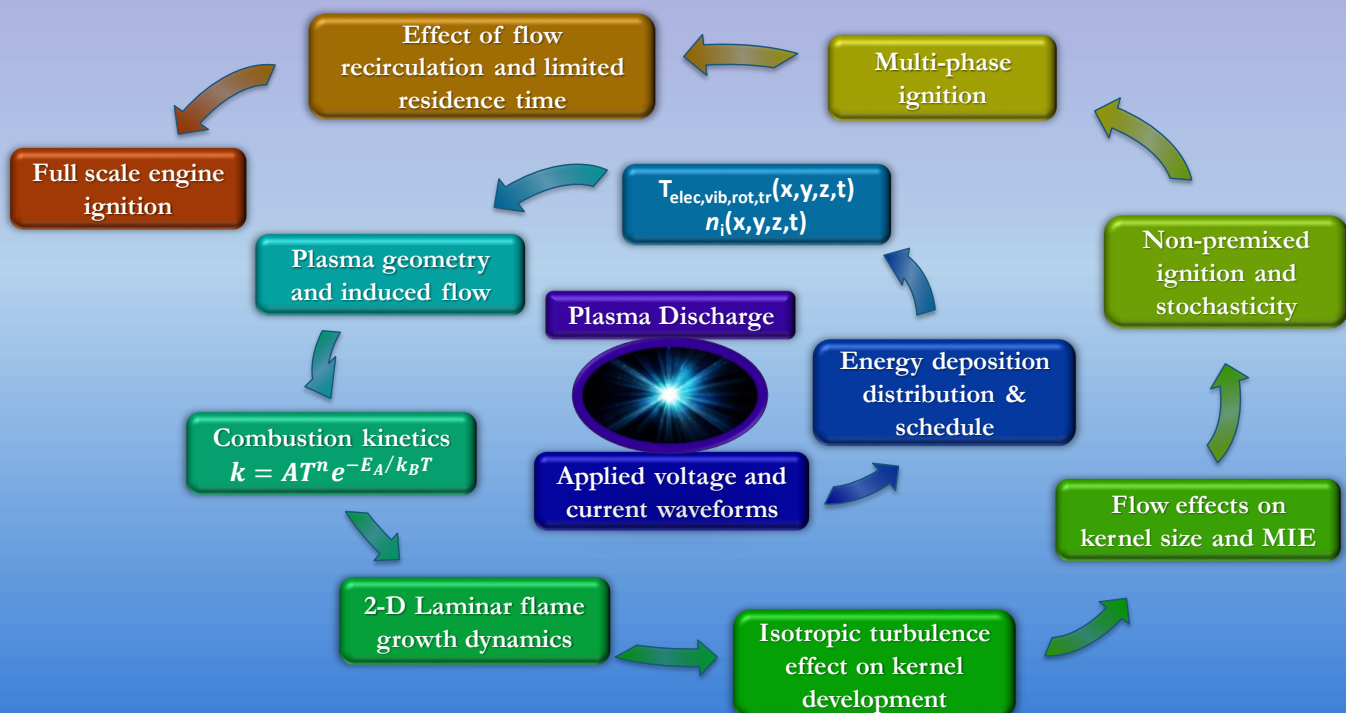
Ignition and flame dynamics in subsonic and supersonic flows, zero-carbon jet engine combustor characterization and modeling, plasma-assisted combustion (PAC) kinetics, hypergolic green rocket fuels.

Optical Technique Development:

Infrared hyperspectral radiometry, tunable diode laser absorption spectroscopy (TDLAS), laser-induced fluorescence (LIF), optical emission spectroscopy (OES).



Infrared Spectroscopy



For more information, please contact Asst. Prof. Joseph Lefkowitz
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