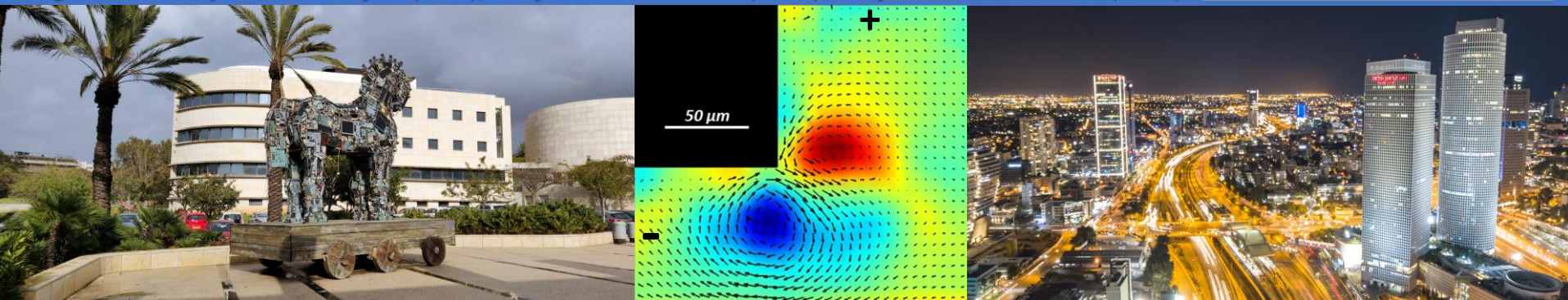


# 14<sup>th</sup> International Symposium on Electrokinetics & Research Workshop of the Israel Science Foundation (ISF)

**Tel-Aviv University, Tel-Aviv, Israel, July 4-6, 2022** *Deadline abstract submission: April 3, 2022*

Organizers: Prof. Gilad Yossifon (TAU), Prof. Boris Zaltzman (BGU), Prof. Isaak Rubinstein (BGU) [Elkin2022israel@gmail.com](mailto:Elkin2022israel@gmail.com)



## ABOUT

The ELKIN is a world-renowned forum featuring advances in theoretical and applied electrokinetics. The first ELKIN symposium took place in Granada, Spain, in 1993. After that, ELKIN conferences have been held in different countries inside and outside Europe, where the latest symposium (ELKIN 2019) was hosted by MIT in 2019. On behalf of the ELKIN Scientific Advisory Board the upcoming ELKIN will take place in Israel.

## INVITED SPEAKERS

- David Andelman (TAU, Israel)
- Martin Bazant (MIT, USA)
- Moran Bercovici (Technion, Israel)
- Hsueh-Chia-Chang (ND, USA)
- Evgeny Demekhin (KSU, Russia)
- Andrei Dukhin (Dispersion Tech. Inc., USA)
- Sung Jae Kim (SNU, S. Korea)
- Natalyia Mishchuk (Inst. Coll. Water Chem., Ukraine)
- Victor Nikonenko (KSU, Russia)
- Antonio Ramos (Univ. Seville, Spain)
- Juan Santiago (Stanford, USA)
- Todd Squires (UCSB, USA)
- Matthew Suss (Technion, Israel)
- Paul Takhistov (Rutgers, USA)
- Orlin Velev (NCSU, USA)
- Petia Vlahovska (Northwestern, USA)
- Mikhail Vorotyntsev (ICMUB, France)
- Carsten Werner (Dresden, Germany)
- Ehud Yariv (Technion, Israel)
- Andriy Yaroshchuk (UPC, Spain)
- Emiliy Zholkovskiy(j) (Ovcharenko Institute, Ukraine)

## TOPICS

- Electrophoresis, diffusiophoresis, colloids and active particles
- Electrokinetics in micro/nano-fluidics
- Structure and dynamics of electrical double layers
- Electrokinetic instabilities and electrohydrodynamics
- Electrokinetics in biological systems
- Electrokinetics in biomedical and lab-on-a-chip devices
- Flow batteries and energy conversion
- Electrokinetics for the oil and gas industry
- Mathematical modelling and simulation
- Physics of membranes

## SPECIAL SESSIONS

- A special session celebrating the work of Prof. Stanislav Dukhin
- Poster session