Bar-Ilan University
אוניברסיטת בר-אילן

Faculty of Exact Sciences
Department of Chemistry

הפקולטה למדעים מדויקים
המחלקה לכימיה

# S E M I N A R

**Wednesday 13/03/19, 11:00 am**

**Building 211, seminar room**

## SPEAKER:

## Prof. Max Shtein

from University of Michigan

## TOPIC:

## Dynamic kirigami for solar tracking and concentration

We demonstrate how a simple 2-dimensional cut and fold patterns transform into 3-dimensional shapes upon stretching, resulting in mechanical metamaterials with several interesting properties and applications (e.g. stretchable electronics, energy storage and energy harvesting). We detail several shapes that can be used for diurnal solar tracking and for up to 100x solar concentration, while maintaining a low profile of a flat panel, potentially transforming the economics of solar electricity generation.