9:00-9:30 Welcome & Coffee

9:30-9:50 Daniel Wagner (WIS), Hierarchical interfaces as fracture propagation traps in natural layered composites

9:50-10:10 Kinneret Keren (Technion), Mechanical aspects of Hydra morphogenesis

10:10-10:30 Bat-El Pinchasik (TAU), The biomechanics of locust valves: structural and materials gradients

10:30-10:50 Ayelet Lesman (TAU), Tension-driven isotropic-anisotropic transition in fibrous biological gels using microrheology

10:50-11:15 5x SHORT TALKS (5-MIN POSTER TEASERS)

11:15-11:30 Coffee Break

11:30-11:50 Shulamit Levenberg (Technion), The effect of tensile forces on blood and lymphatic vessel networks in 3D engineered tissue constructs

11:50-12:10 Anne Bernheim (BGU), Shape transition in actively contractile systems

12:10-12:30 Igor Berinskii (TAU), Particle-based methods to simulate mechanical behavior of materials at different scales

12:30-12:55 5x SHORT TALKS (5-MIN POSTER TEASERS)

12:55-13:55 Lunch+Posters

13:55-14:15 Eran Bouchbinder (WIS), Frictional cracks

14:15-14:35 Oksana Stalnov (Technion), Sound due to a Modern Rotating Machinery, Modelling and Measurement.

14:35-14:55 Konstantin Volokh (Technion), Quasi-static crack propagation in soft materials using the material-sink theory

14:55-15:15 Dov Sherman (TAU), Micro to macro in fracture: from bond breaking mechanisms to macroscopic cleavage energy

15:15-15:30 Coffee Break

15:30-15:50 Naomi Oppenheimer (TAU), Surfing its own wave - hydroelastic migration of particle near a membrane
15:50-16:10 Amnon Buxboim (Hebrew), In situ mechanical characterization delineates preimplantation embryo development

16:10-16:30 Mirit Sharabi (Ariel), Structural mechanisms in nature-based materials and tissues-structure-function relationship

16:30-16:50 Gilad Yossifon (TAU), Interaction between electrically powered self-propelling particles and biological cells

16:50-17:10 Benny Bar-On (BGU), Approaching the nanomechanical properties of biological interfaces

17:10 Concluding remarks