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Abstract for an Invited Paper
for the MAR14 Meeting of
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Motile Fluids: Granular, Colloidal and Living¹

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My talk will present our recent results from theory, simulation and experiment on flocking, swarming and instabilities in diverse realizations of active systems. The findings I will report include: flocking at a distance in vibrated granular monolayers; the active hydrodynamics of self-propelled solids; clusters, asters and oscillations in colloidal chemotaxis.

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