

Notre Dame **Science**
Department of Physics

EMERGENCE OF ORDER IN PHYSICAL, CHEMICAL, AND BIOLOGICAL SYSTEMS

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4:00 p.m. NSH 118

(Refreshments at 3:30 p.m. NSH 202)

The emergence of patterns is one of the world's most durable mysteries. Some patterns (clouds, snowflakes) form in space, while others (the ebb and flow of tides, seasonal wet and dry spells) form in time. Do patterns such as the spirals in a frog egg, a fibrillating heart, and an ocean eddy have anything in common? The sizes are vastly different and the biology of a frog egg is far more complicated than the physics of a fluid. Yet the patterns formed in such systems, differing widely in scale and in the underlying molecular mechanisms, can in some cases be understood from a common approach.

Colloquium

All interested persons are cordially invited to attend.