1125-35-11   **Gigliola Staffilani***, Massachusetts Institute of Technology, Cambridge, MA 02139. *The many faces of dispersive and wave equations.*

The mathematical nature of dispersion is the starting point of a very rich mathematical activity that has seen incredible progress in the last twenty years, and that has involved many different branches of mathematics: Fourier and harmonic analysis, analytic number theory, differential and symplectic geometry, dynamical systems and probability. In this talk I will give examples of these diverse directions and related open problems. (Received May 22, 2016)