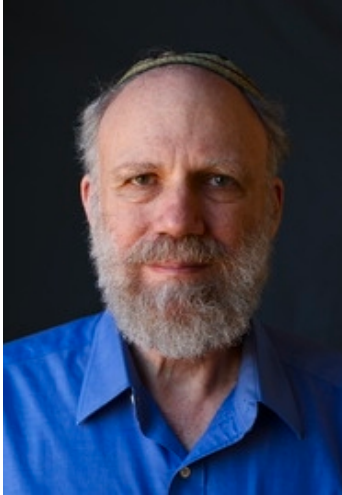


# Geometry and Analysis of Fluid Flows

*With a special tribute to David Ebin on the occasion of his 80th birthday and retirement*

Stony Brook University, January 16-20, 2023



Supported by the National Science Foundation, Stony Brook University Department of Mathematics and Institute for Mathematical Sciences, Simons Center for Geometry and Physics, and Vanderbilt University.

**Speakers:** Yann Brenier (*Ecole Polytechnique*), Jeff Cheeger (*Courant Institute*), Peter Constantin (*Princeton*), Magdalena Czubak (*U Colorado Boulder*), Tarek Elgindi (*Duke U*), Susan Friedlander (*USC*), Darryl Holm (*Imperial College London*), Mihaela Ignatova (*Temple U*), Barbara Keyfitz (*OSU*), Boris Khesin (*U Toronto*), Leandro Lichtenfelz (*Wake Forest U*), Huy Nguyen (*U Maryland*), Tudor Ratiu (*UC Santa Cruz*), Steve Shkoller (*UC Davis*), Dennis Sullivan (*Stony Brook & CUNY GC*), Vladimir Sverak (*U Minnesota*), Cornelia Vizman (*West U of Timisoara*).

**Financial Support:** Limited financial support is available for young researchers and researchers of underrepresented groups. The deadline for applying is 12/2/2022.

**More information:** <https://my.vanderbilt.edu/geoanalysisff/>

**Aim:** The workshop will feature a mathematically diverse group of speakers whose expertise spans multiple relevant areas. Topics to be discussed at the workshop include free boundary problems in fluid dynamics, the geometry of infinite-dimensional groups, singular limits in fluid flows, well-posedness and regularity of fluid equations, and differential geometric methods in mathematics and physics. The workshop will happen in conjunction with a celebration of David Ebin's contributions to these topics on the occasion of his 80th birthday and retirement.

**Organizers:** Marcelo Disconzi (*Vanderbilt University*), Theodore Drivas (*Stony Brook University*), Gerard Misiolek (*University of Notre Dame*), Stephen Preston (*Brooklyn College & CUNY Graduate Center*)