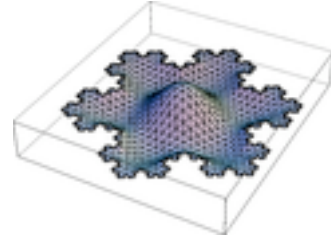


## Variational and Topological Methods: Theory, Applications, Numerical Simulations, and Open Problems



Northern Arizona University, Flagstaff, Arizona, USA - May 23 – 26, 2007

### Principal Speakers:

- **Djairo de Figueiredo**, Univ. Estad. de Campinas, Brazil
- **Jean Mawhin**, Univ. Catholique de Louvain, Belgium
- **James Serrin**, Univ. of Minnesota, Minneapolis
- **Peter Takac**, Univ. Rostock, Germany
- **Jianxin Zhou**, Texas A&M Univ.

The Principal Speakers will give a series of 1-hour talks and/or workshops covering topics in variational and topological methods in nonlinear partial differential equations (PDE). The conference theme is to survey important results, techniques, and open problems related to elliptic PDE and systems, along with their corresponding applications (e.g., quantum mechanics) and algorithms (e.g., mountain pass). *Presentations should provide some background material suitable for the students and new PhD who are being encouraged to participate.*

Registration is now open and will continue until May 1<sup>st</sup> or capacity has been reached. Abstracts for talks and posters should be submitted as soon as possible; please use the conference link at <http://www.math.nau.edu/>. The conference proceedings will be published in the Electronic Journal of Differential Equations.

The National Science Foundation has awarded us with limited funds in order to assist qualified participants with their travel/lodging expenses. *Applicants such as students, new PhD, underrepresented mathematicians, and those without adequate funding of their own should apply immediately.*

Flagstaff is in cool mountain pines at 7000', within a few hours of Sedona, the Grand Canyon, and southern Utah. Phoenix is 2 hours away - Las Vegas and Los Angeles are also close. Register, attend, learn and contribute, and enjoy our spectacular scenery!

Organization Committee: Maya Chhetri, Petr Girg, and John M. Neuberger  
Scientific Committee: Alfonso Castro, Goong Chen, Pavel Drabek, Tim Kelley, and R. Shivaji