

2006 Midwest Geometry Conference

University of Oklahoma, Norman

May 5 – 7, 2006

SCHEDULE

All talks are scheduled in the Physical Science Building (PHSC).

FRIDAY, May 5, 2006

- | | |
|-------------------------------|--|
| 12:00-1:15 P.M. | Snacks and registration in the Math Lounge (PHSC 424) |
| 1:30-2:30 P.M.
PHSC 108 | Wu-Yi Hsiang (University of California at Berkeley)
<i>Kenematic geometry of mass-triangles and the 3-body problem in celestial mechanics</i> |
| 2:45-3:45 P.M.
PHSC 108 | Robert M Hardt (Rice University)
<i>Rectifiable Chains in a Metric Space with Coefficients in a Group</i> |
| 4:00-5:00. P.M.
PHSC 108 | Ralph Howard (University of South Carolina)
<i>Some Recent Results in the Geometric Tomography of Convex Bodies</i> |
| 5:00-6:40 P.M | Dinner: informal groups. List of restaurants provided |
| 6:40 – 7:10 P.M.
PHSC 121 | Jan Segert (U. Missouri-Columbia)
<i>Searching for exotic complex structures</i> |
| 6:40 – 7:10 P.M.
PHSC 119 | Vladyslav Yaskin(U. Missouri-Columbia and U. Oklahoma)
<i>A solution to the lower dimensional Busemann-Petty problem in the hyperbolic space.</i> |
| 7: 15 – 7:45 P.M
PHSC 121 | Ivan Avramidi(New Mexico Tech)
<i>Heat Kernel Asymptotics on Symmetric Spaces</i> |
| 7: 15 – 7:45 P.M.
PHSC 119 | Alexander Ramm(Kansas St. U.)
<i>Distribution of particles which produces a desired radiatio pattern.</i> |

- 7: 50 – 8:20 P.M.
PHSC 121 Sungwook Lee(U. Southern Mississippi)
Timelike surfaces of constant mean curvature 1 in anti-de Sitter 3- space
- 7: 50 – 8:20 P.M.
PHSC 119 Maryna Yaskina(U. Missouri-Columbia and U. Oklahoma)
Non-intersection bodies all of whose central sections are intersection bodies.
- 8:25-8:55 P.M.
PHSC 121 Lina Wu(U. Oklahoma)
Some existence and nonexistence theorems in p -harmonic geometry
- 8:25-8:55 P.M.
PHSC 119 Phuc Nguyen(U. Missouri-Columbia)
Quasilinear and Hessian equations with power source terms

SATURDAY, May 6, 2006

- 8:00-8:30 A.M. Fruits and Vegetables in PHSC 1105
- 8:30-9:30 A.M.
PHSC 108 Henry Wente (University of Toledo)
New Exotic Containers
- 9:45-10:45 P.M.
PHSC 108 Bennett Chow (University of California at San Diego)
The work of Glickenstein on the combinatorial Yamabe flow
- 10:55-11:25 A.M.
PHSC 108 Junfang Li (U. Oklahoma and MSRI)
A p -harmonic approach to the Generalized Bernstein Conjecture
- 11:30 A.M.- 12:30 A.M.
PHSC 108 Jianguo Cao (Notre Dame)
New Estimates for the d -bar Cauchy Problem and Geometric Applications
- 12:30 -1:00 P.M. Box Lunch in PHSC 1105
- 1:00-2:00 P.M.
PHSC 108 Xiaochun Rong (Rutgers University)
Margulis Lemma for compact Lie groups

2:15-3:15 P.M. Guofang Wei (University of California at Santa Barbara)
PHSC 108 *On the Stability of Kähler-Einstein Metrics*

3:30-4:30 P.M. Mu-Tao Wang (Columbia University)
PHSC 108 *On quasi-local mass and its positivity*

4:45-5:45 P.M. Christina Sormani (Lehman College, CUNY)
PHSC 108 *The Topology of Riemannian Manifolds of Nonnegative Ricci Curvature*

6:30-8:00 P.M. Banquet at Commons Restaurant on Campus

8:00-9:00 P.M. Panel discussion on open problems

SUNDAY, May 7, 2006

8:00-8:30 A.M. Fruits and Vegetables in PHSC 1105

8:30-9:30 A.M. Paul Yang (Princeton University)
PHSC 108 *Conformally invariant equations*

9:45-10:45 A.M. Shihshu Walter Wei (University of Oklahoma)
PHSC 108 *p-Harmonic Geometry - its yesterday, today, and tomorrow*

11:00-12:00 noon Changyou Wang (University of Kentucky)
PHSC 108 *Heat flow of biharmonic maps and applications*

12:00 -12:45 P.M. Box Lunch in PHSC 1105

12:45-1:30 P.M. Future Directions of the Midwest Geometry Conference
PHSC 809 Repres. from AR, IN, KS, MI, MO, MS, ND, NM, OH,
OK, TX, ..., etc