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This volume, dedicated to the late C. C. Hsiung, presents eleven papers written by distinguished geometers for the International Symposium on Geometry and Topology, held in 2010 at Lehigh University in Bethlehem, Pennsylvania.

Several papers on topics pertaining to geometric analysis are presented: Christian Baer and Werner Ballmann on boundary value problems for elliptic differential operators of the first order; Simon Brendle on rigidity phenomena involving scalar curvature; Simon Donaldson on stability, birational transformations, and the Kähler-Einstein problem; D. H. Phong, Jian Song, and Jacob Sturm on complex Monge-Ampere equations; Weimin Sheng, Neil S. Trudinger, and Xu-Jia Wang on the k-Yamabe problem; and S.-T. Yau on further topics of geometric analysis. Also presented are papers by Gergely Berczi and Frances Kirwan on a geometric construction for invariant jet differentials; B. Bramham and H. Hofer concerning symplectic dynamics; Dominic Joyce on C infinity schemes and C infinity algebraic geometry; Kenji Fukaya, Yong-Geun Oh, Hiroshi Ohta, Kaoru Ono on Lagrangian Floer theory of compact toric manifolds; and Paul Seidel on Fukaya categories.

Chuan-Chih Hsiung began teaching at Lehigh University in 1952. In 1967, he founded the Journal of Differential Geometry, an influential journal in its field, and served as its editor-in-chief till his death in 2009