

Preface

Surveys in Differential Geometry 2014 is dedicated to the three most eminent contributors to the subject of regularity and existence of nonlinear partial differential equations, which has played such an important role in geometry. These are Richard Hamilton, Leon Simon, and Karen Uhlenbeck—all of whom have turned, or will turn, 70 within a year or so.

This special “birthday” volume, therefore, consists of articles written by their friends and former students. Topics include: analysis related to minimal submanifolds, Yang-Mills theory, Kähler metrics, Monge-Ampère equations, curve flows, and general relativity.

The editors would like to express our thanks and gratitude to all those who have contributed articles to this volume, and our congratulations to professors Hamilton, Simon, and Uhlenbeck.

Huai-Dong Cao
Lehigh University

Richard Schoen
Stanford University

Shing-Tung Yau
Harvard University