Preface

This volume forms the proceedings of a conference entitled "Recent Advances and New Directions in the Interplay of Noncommutative Algebra and Geometry", that was held in honor of S. Paul Smith on the occasion of his 65th Birthday, at the University of Washington, Seattle, June 20-24, 2022. This conference was originally scheduled to be held in 2020, but, owing to the Covid-19 pandemic, it was postponed until 2022. The organizing committee consisted of Ken Brown, Tim Hodges, Ron Irving, Michaela Vancliff, and James Zhang.

The first article outlines some of Paul Smith's contributions to mathematics. The subsequent articles in the volume, by some of the leading experts in the areas of noncommutative algebra, noncommutative algebraic geometry, and representation theory, reflect the wide interests of Paul. Specific topics include: Hopf algebras and quantum groups, the elliptic algebras of Feigin and Odesskii, Calabi-Yau algebras, AS-regular algebras and noncommutative algebraic geometry, representation theory and deformation theory, noncommutative ring theory and Lie theory, and more.

Ken Brown, Tim Hodges, Michaela Vancliff and James Zhang (editors)