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## Preface

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## Preface

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This is Part II of the Special Issue of the Journal of Low Temperature Physics honoring David M. Lee and John D. Reppy on the occasion of their 90th birthdays. Part I appeared in volume 205 (issue 5/6) of the Journal of Low Temperature Physics in December 2021. David and John have made major contributions to low temperature physics through seminal experiments, most notably studying the condensed phases of  $^3\text{He}$  and  $^4\text{He}$ : including superfluid  $^3\text{He}$ , the magnetic properties of solid  $^3\text{He}$ , superfluid  $^4\text{He}$  and several other interests. Their work has been characterized by an elegance in experimental craftsmanship and a deep insight into the properties of these quantum fluids and solids.

David and John have mentored many graduate students and postdoctoral students at Cornell and influenced many more in low-temperature laboratories throughout the world. Part II of this special issue reflects the wide influence that they have had with contributors presenting papers on a variety of topics: the surface properties of solid  $^3\text{He}$ , dislocations and impurities in  $^4\text{He}$ ,  $\text{H}_2$  films, Balian–Werthamer superconductors, London penetration depth studies, zeptometer metrology, Bose–Einstein condensates and black hole physics. An article about the deceleration of a quantum particle and coherent control by Losert *et al.* will appear in one of the next issues.

The low temperature physics community has benefitted from the endeavors that John and David have pursued both for the fundamental scientific contributions they have made and the support they have given to so many for such a long time.

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