Elliott Lieb has made fundamental contributions to both mathematics and physics. His work on the ice problem, Lieb-Thirring inequalities, Bose gases, and the strong subadditivity of entropy has had a lasting impact on mathematical analysis, combinatorics, statistical and quantum physics, and quantum information theory. Lieb has received many honors, including the Rolf Schock prize from the Swedish Academy of Sciences, the Boltzmann medal of IUPAP, and the Birkhoff prize of the AMS and SIAM.