

【「The Coating Process Fundamentals Program (CPFP) at the University of Minnesota:  
A 40-Year Tradition of Excellence」】

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Abstract

The Coating Process Fundamentals Program (CPFP) at the University of Minnesota is a unique university-industry partnership dedicated to fundamental research on liquid-applied coating processes. It is the oldest, largest, and broadest program of its kind, addressing the entire coating-process spectrum from liquid properties to deposition methods to drying and solidification. This talk will first provide a brief history of CPFP and an overview of current research activities. An overview will also be given of IPrime, the Industrial Partnership for Research in Interfacial and Materials Engineering, a broader university-industry consortium of which IPrime is a part. The remainder of the talk will focus on recent award-winning CPFP research on dynamic wetting failure and air entrainment, key phenomena limiting the maximum speed of continuous coating processes.