1063-68-282 Andrew Selle\* (Andrew.Selle@disneyanimation.com), Walt Disney Animation. Numerical simulation in film production.

Film production increasingly depends on the use of computers. Numerical simulation of physical phenomena such as light transport and dynamics form an important part of modern story telling. I will discuss the challenges of uniting technology and artistry at Walt Disney Animation Studios. Examples given will be liquid, smoke and fire simulation. A few lessons about what makes research technology appealing and transferable to artists will be discussed. (Received August 18, 2010)