**Takashi Kashiwagi** is a Guest Researcher at NIST and Research Professor in Fire Protection Engineering, University of Maryland, having worked as a Group Leader and Fire Research Engineer at NIST since 1971. Takashi has a B.S. and M.S. in Mechanical Engineering from Keio University in Japan and a Ph.D. and Post Doctoral Fellowship in Aerospace and Mechanical Sciences from Princeton University. Takashi's research includes experimental and theoretical studies of ignition, flame spread, and burning of polymeric materials, flame-retardants, propellant combustion, shock tube studies, and combustion in a microgravity environment