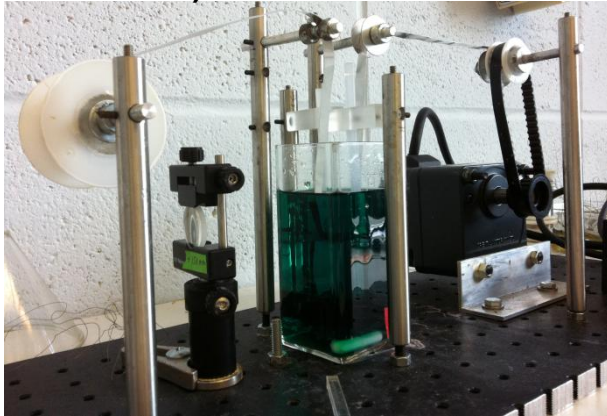


**Reel to reel in situ laser metal oxide removal followed by conventional plating
(Laser not shown)**



Interests:
Laser enhanced plating
Laser annealing during film growth
In situ oxide removal followed by
Electro and immersion plating

**Inventing and Writing of Patents
Six Columbia U. patents pending,
Two about to issue
91 issued at IBM**

Experience prior to Columbia:
44+ years as Research staff
Member, IBM Research