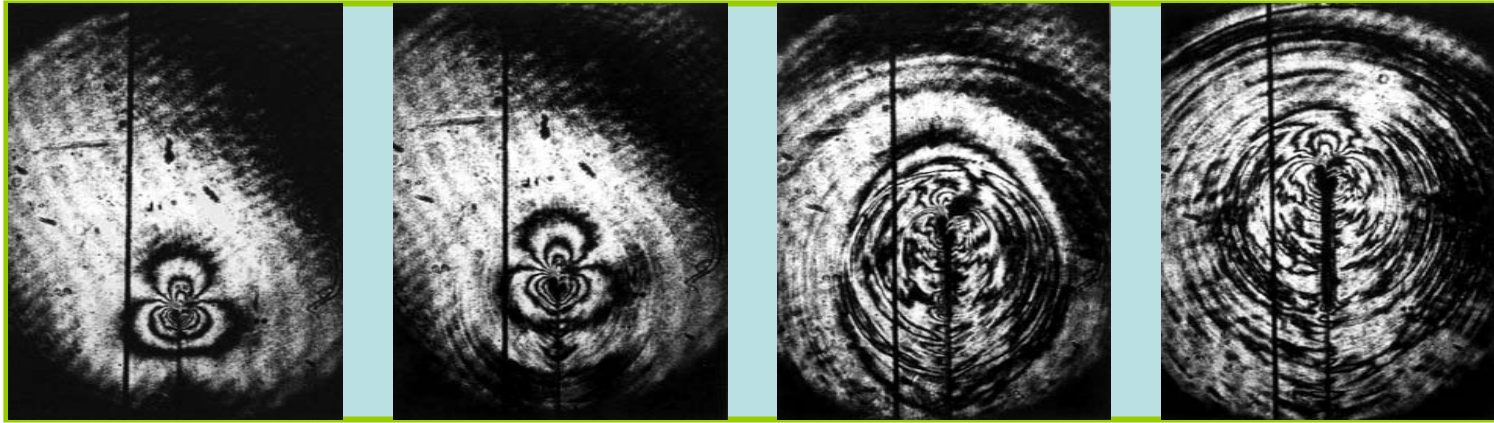


INVENTING CGS FOR THE U.S. NAVY

“Studies of Dynamic Fracture of Solids”

- CGS was invented in 1988 and applied to the study of dynamic crack growth ($\sim 1000\text{m/s}$) in metals and polymers. Project funded by ONR



A crack propagating dynamically in C-300 steel
(CGS interferograms)

A crack propagating intersonically in a
unidirectional composite laminate
(shock waves are visible)

CGS measures crack- induced surface slopes
and relates them to the dynamic fracture
strength of the material

