

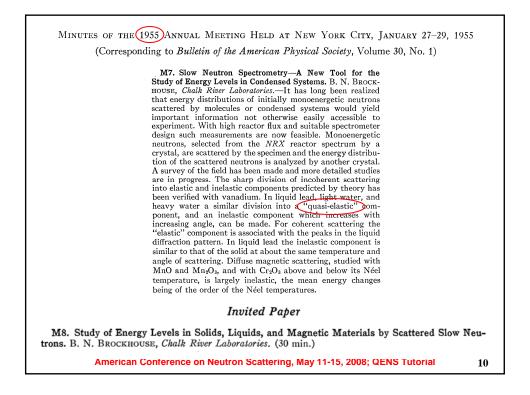


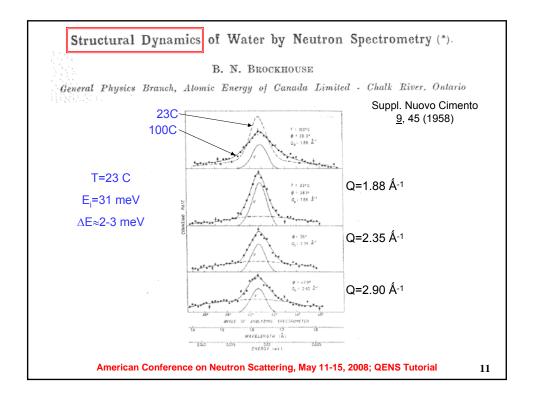
## A brief history of neutron scattering

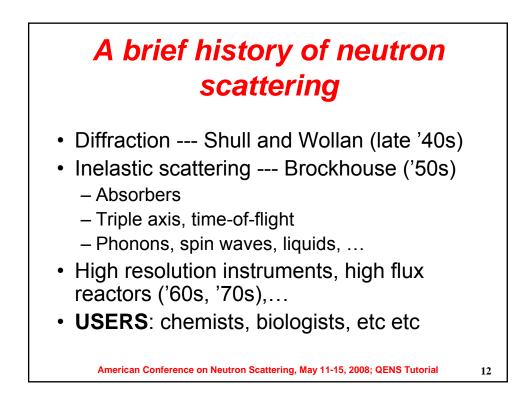
- Diffraction --- Shull and Wollan (late '40s)
- Inelastic scattering --- Brockhouse ('50s)
  - Absorbers
  - Triple axis, time-of-flight
  - Phonons, spin waves, liquids, ...

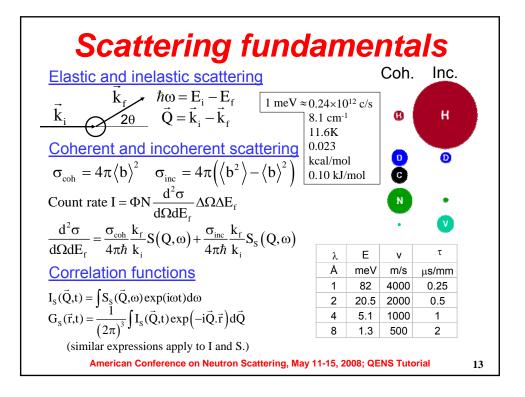
American Conference on Neutron Scattering, May 11-15, 2008; QENS Tutorial

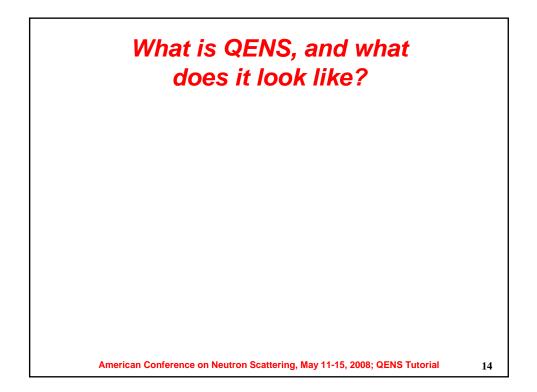
9

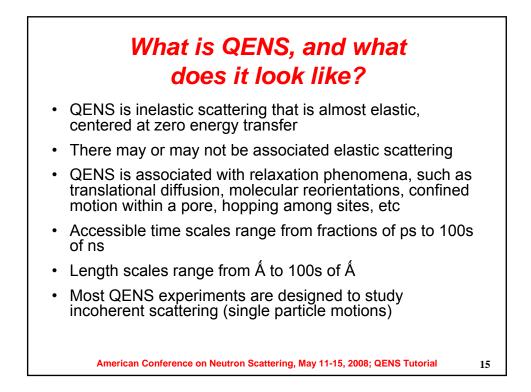


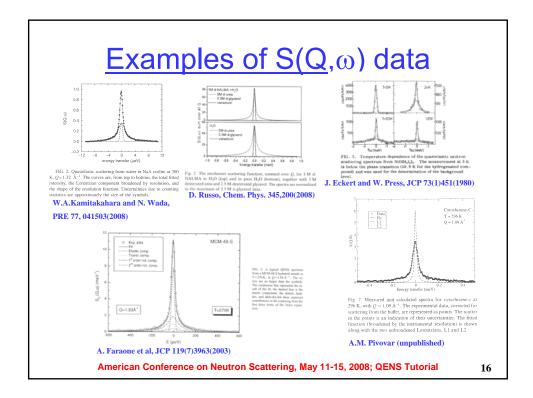


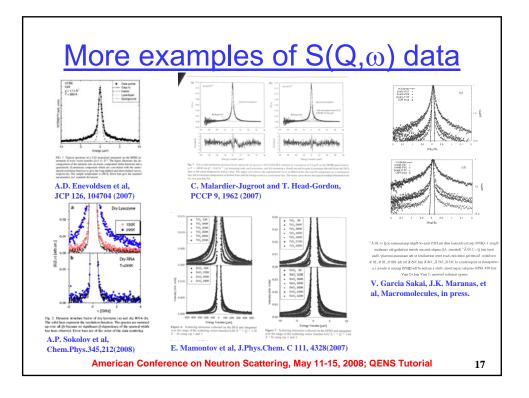


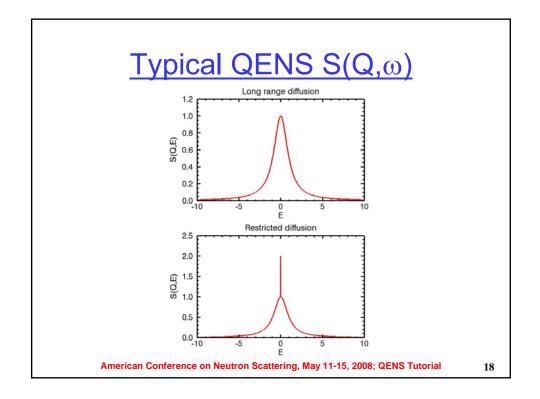


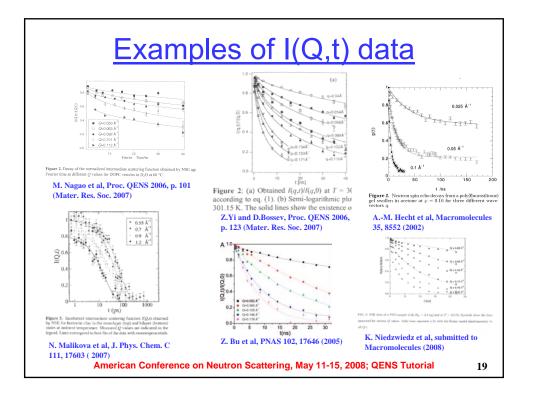


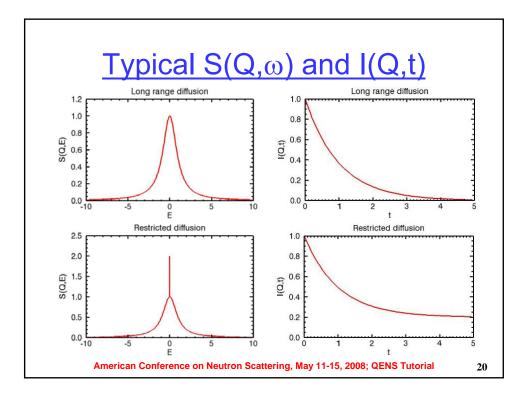


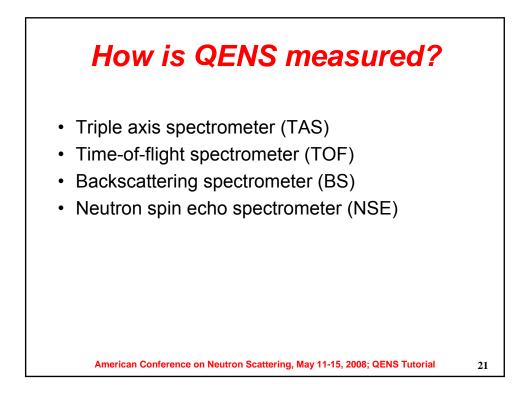


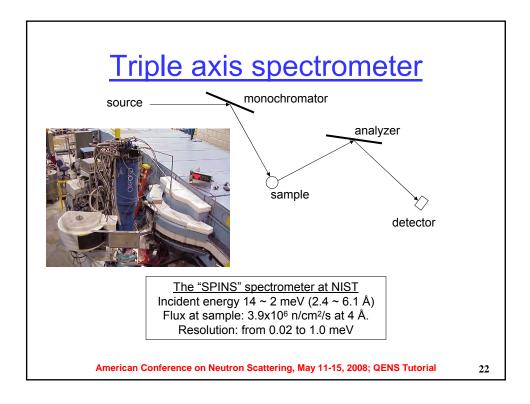


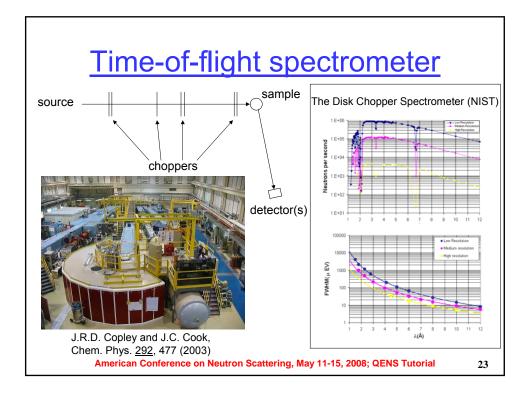


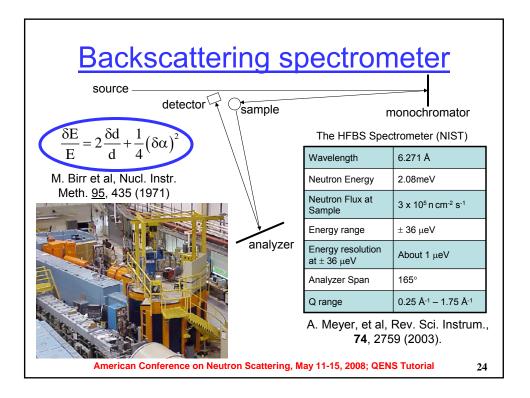


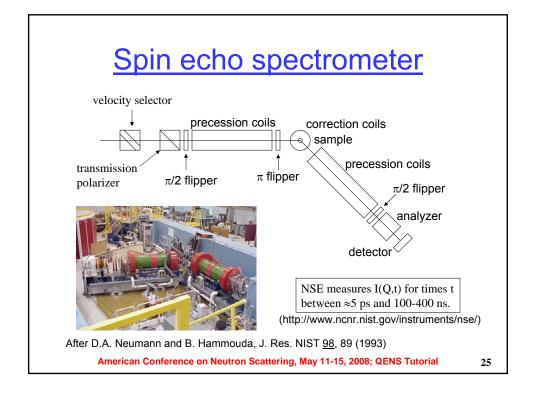


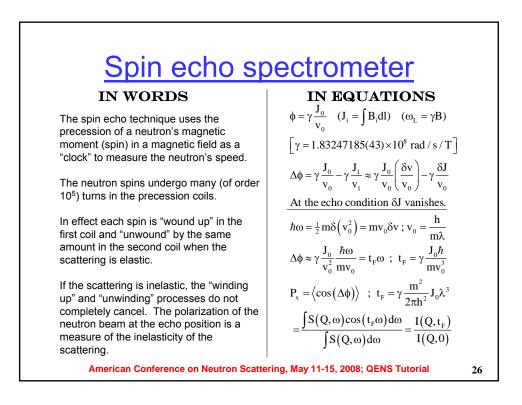


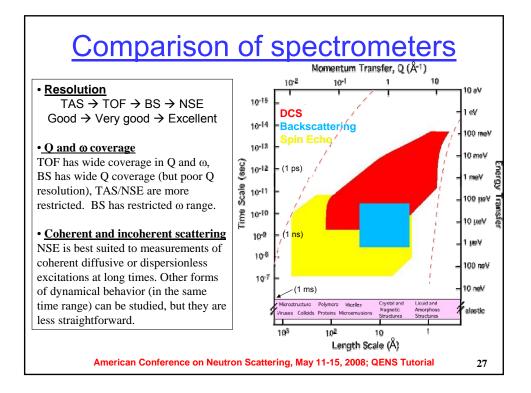


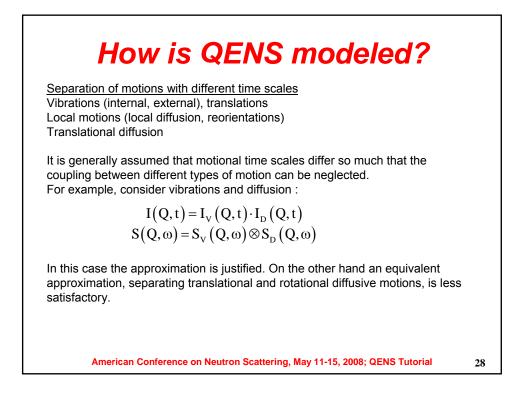


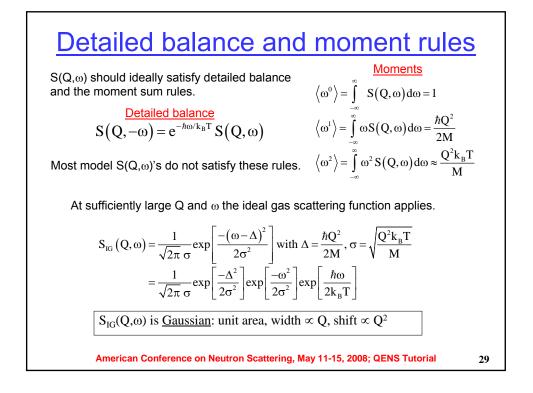


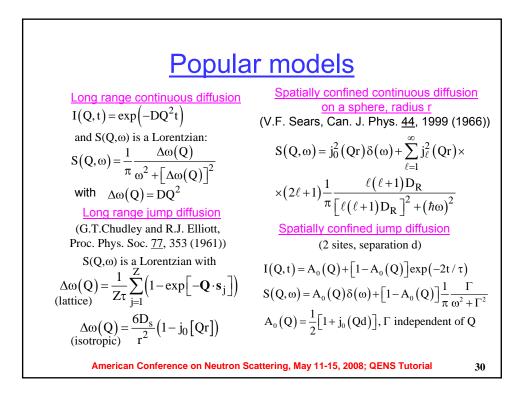


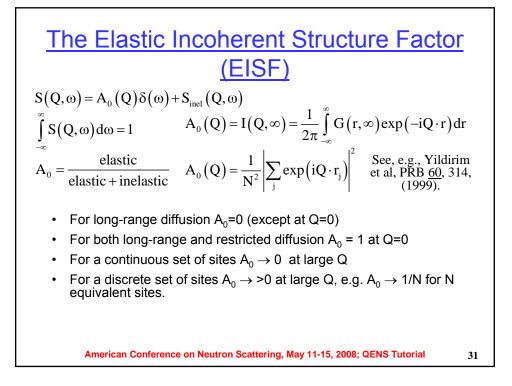


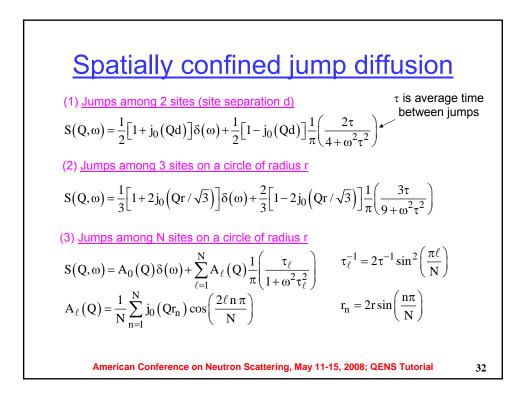


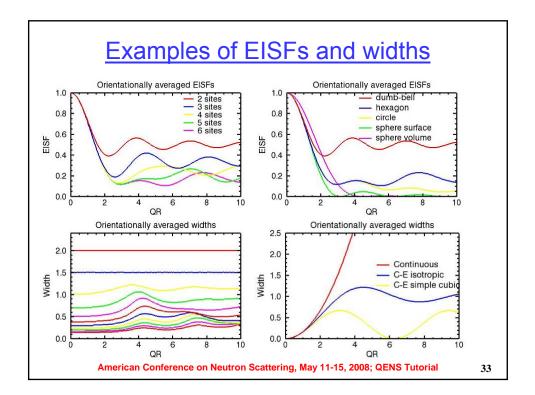


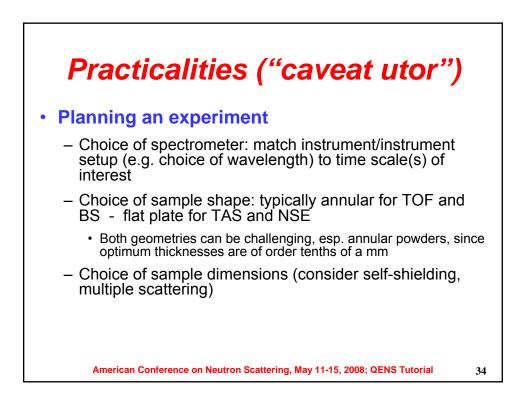












-	Cl Matching			ectron		interest
	$\bigstar (slow) \longrightarrow S(Q, \omega) \longrightarrow (fast) \twoheadrightarrow$					
← Resolution →		delta- function peak	Narrow peak	Medium width peak	Broad peak	Flat back- ground
	Low resn. (broad)	(Elastic)	Elastic	Elastic	Match	(Flat)
	Med. resn. (medium)	(Elastic)	Elastic	Match	Flat	(Flat)
	High resn. (narrow)	(Elastic)	Match	Flat	Flat	(Flat)

