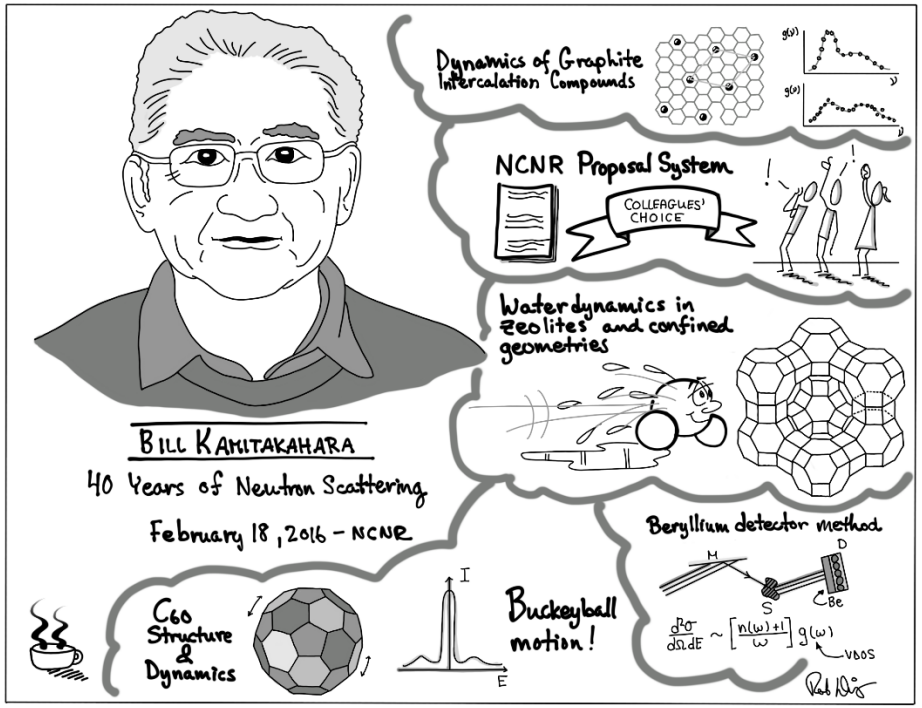
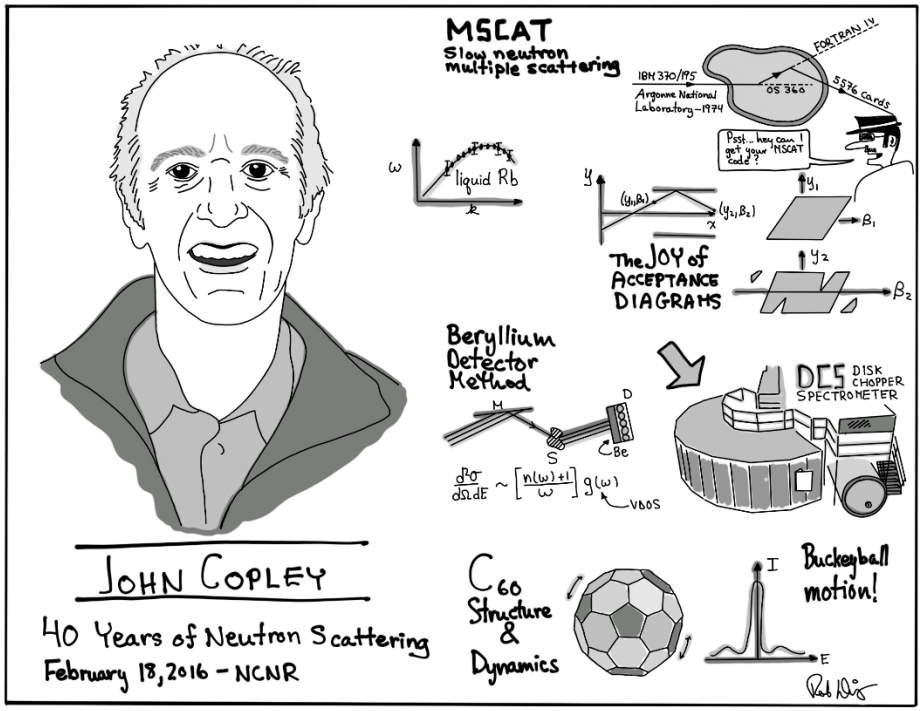

Dynamics of Graphite Intercalation Compounds
NCNR Proposal System
COLLEAGUES' CHOICE
Waterdynamics in zeolites and confined geometries
BILL KAMITAKAHARA
40 Years of Neutron Scattering
February 18, 2016 – NCNR
Beryllium detector method
M
D
S
Be
$\frac{d^2\sigma}{d\Omega dE} \sim \left[\frac{n(\omega)+1}{\omega}\right] g(\omega)$
VDOS
C60 Structure & Dynamics
I
E
Buckeyball motion!


MSCAT
Slow neutron multiple scattering
IBM 370/195
Argonne National Laboratory – 1974
FORTRAN IV
OS 360
5576 cards
Psst... hey can I get your MSCAT code?
liquid Rb
The JOY of ACCEPTANCE DIAGRAMS
Beryllium Detector Method
M
D
S
Be
$\frac{d^2\sigma}{d\Omega dE} \sim \left[\frac{n(\omega)+1}{\omega}\right] g(\omega)$
VDOS
DCS DISK CHOPPER SPECTROMETER
JOHN COPLEY
40 Years of Neutron Scattering
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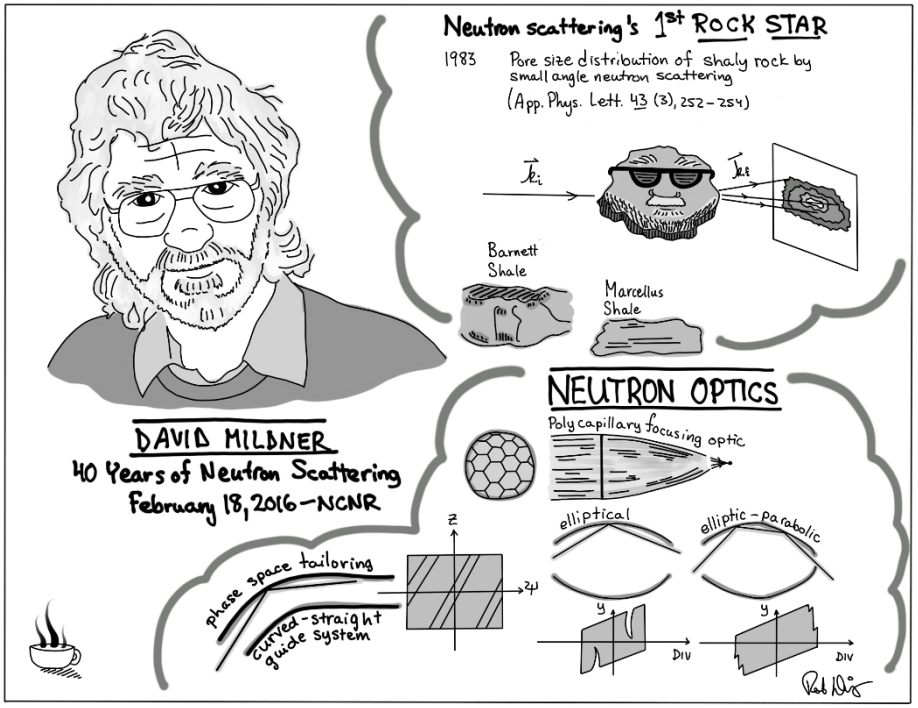
C60 Structure & Dynamics
I
E
Buckeyball motion!


Neutron scattering's 1st ROCK STAR
1983 Pore size distribution of shaly rock by small angle neutron scattering
(App. Phys. Lett. 43 (3), 252–254)
Barnett Shale
Marcellus Shale
DAVID MILDNER
40 Years of Neutron Scattering
February 18, 2016 – NCNR
NEUTRON OPTICS
Polycapillary focusing optic
elliptical
elliptic – parabolic
phase space tailoring
curved-straight guide system
z
y
DIV