



A VIRTUAL TOUR OF TEACHSPINS 'FOOD TRUCK FOR THE PHYSICS MIND'

- 1.) [Diode-Laser Spectroscopy](#): Tuning the interaction of laser light with atoms
- 2.) [Two-Slit Interference](#): A quantum 'thought experiment' turned actual
- 3.) [Magnetic Force](#): Confronting the most persistent misconception in E&M
- 4.) [Optical Pumping](#): Enabling the *radio*-frequency spectroscopy of atoms
- 5.) [Quantum Analogs](#): The quickest way to build intuition for quantum-relevant wave behavior
- 6.) [Modern Interferometry](#): Exploiting micrometer, and nanometer, sensitivity to displacement
- 7.) [Noise Fundamentals](#): When is electronic noise not a nuisance, but a resource?
- 8.) [Fourier Methods](#): What can you learn by 'thinking in frequency space'?
- 9.) [Earth's-Field Nuclear Magnetic Resonance](#): The singing of the waters
- 10.) [Torsional Oscillator](#): Exploring damped, driven, simple harmonic motion
- 11.) [Faraday Rotation](#): Proving there's magnetism in the electromagnetism of light
- 12.) [Signal-Processor/Lock-In Amplifier](#): How to extract signals from noise
- 13.) [Magnetic Torque](#): The surprising results of magnetic torque vs. angular momentum
- 14.) [Nuclear Magnetic Resonance](#): The basis of the NMR technique in physics, chemistry, and MRI
- 15.) [Ultrasonics](#): What sound of *Mega*Hertz frequencies can do for you
- 16.) [Muon Physics](#): Particle Physics at your fingertips, any time and any place

