

**Saturday April 4, 2009**

<b>8:00</b>	<b><u>Registration</u></b>	<b>1<sup>st</sup> Floor Foyer</b>
	<b><u>Plenary Session II (Daniel Marble – TSU)</u></b>	<b>Science 102</b>
<b>8:15</b>	<b><u>Brad Ambrose</u></b> Physics Department at Grand Valley State University “Because physics majors have conceptual difficulties too: Development of a tutorial approach to teaching intermediate mechanics”	
<b>8:55</b>	<b><u>Richard Peterson</u></b> Physics Department at Bethel College “Advanced lab initiatives: building on a rich diversity of programs and experiments”	
<b>9:35</b>	<b><u>Duncan Weathers</u></b> Physics Department of the University of North Texas “The Advanced Undergraduate Nuclear and Atomic Laboratory at the University of North Texas”	
<b>10:00</b>	<b><u>AAPT 2 (Shaukat Goderya - TSU)</u></b>	<b>Science 102</b>
	<b><u>APS 3: Nuclear and Atomic Physics (Jimmy McCoy - TSU)</u></b>	<b>Science 110</b>
	<b><u>APS 4: Theoretical Physics (Mike Hibbs - TSU)</u></b>	<b>Science 109</b>
	<b><u>AAPT Teacher Workshop #3</u></b>	<b>Science 235</b>
	<b><u>AAPT Teacher Workshop #4</u></b>	<b>Science 236</b>
<b>10:30</b>	<b><u>Planetarium Show</u></b>	<b>Planetarium</b>
<b>1:15</b>	<b><u>AAPT Teacher Workshop #5</u></b>	<b>Science 234</b>

## AAPT #2 – M1

Chair: Shaukat Goderya – Tarleton State University

**Saturday 10:00-12:00**

**Science 102**

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- 10:00 M1.01 Thomas O’Kuma, Lee College, *Spiral Physics*
- 10:12 M1.02 Steven Ball, Le Tourneau University, *Elastic Collisions and Gravity*
- 10:24 M1.03 Lianxi Ma, Blinn College, *How Mass Changes with Velocity and Energy?*
- 10:36 M1.04 Thomas O’Kuma, Lee College, *ATE Program for Physics Faculty*
- 10:48 M1.05 Lianxi Ma, Chi Chin, Blinn College, *The electrical currents in a DC RC Circuit*
- 11:00 M1.06 Richard Taylor, The Hockaday School, *A Course in Science and Pseudoscience*
- 11:12 M1.07 Paul Williams, Austin Community College, *A New Tune for an Old Sonometer*
- 11:24 M1.08 Francesco Stefani, Jill Marshall, The University of Texas, *Qualitative Understanding of Magnetism at Three Level of Expertise*
- 11:36 M1.09 James Roberts, Aman Anand, Jai Dahiya Lianxi Ma, The University of North Texas, *Al Gore did Not Invent the Internet, Hans Christian Oersted did in 1820*
- 11:48 M1.10 Eric Hagedorn, Michael Eastman, Guillermo Carbajal-Franco, The University of Texas at El-Paso, *PVDF Smart Sensors in the Physics Classroom*

## APS 3 on Nuclear and Atomic Physics – M2

Chair: Jimmy McCoy – Tarleton State University

**Saturday 10:00-11:12**

**Science 110**

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- 10:00 M2.01 Jose Pacheco, Duncan Weathers, Carlos Ordonez, The University of North Texas, *Electrostatic Confinement of Charged Particle Beams*
- 10:12 M2.02 James Roberts, Jai Dahiya, Aman Anand, The University of North Texas, Examination of Some Interesting Data on Global Warming
- 10:24 M2.03 Michael Sadler, Abilene Christian, *Need and prospects for new experiments in baryon spectroscopy using meson beams*
- 10:36 M2.04 Shadow Robinson, Larry Zamick, Yitzhak Sharon, Millsaps College, *Shell Model Structure of the Even Isotopes of Argon*

10:48 M2.05 Felicia Manciu, et. al., The University of Texas at El Paso, *Raman and Infrared Absorption Study of Indigoid-based Pigments*

11:00 M2.06 M. Tahir, I.R. Chughtai, M.A.K. Lodhi, Texas Tech University, *Comparison of passive safety and the safety injection systems under loss of coolant accident*

## **APS 4 Theoretical Physics – M3**

Chair: Michael Hibbs – Tarleton State University

**Saturday 10:00-12:12**

**Science 109**

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10:00 M3.01 Richard Croley, The University of North Texas, *Quantum Spacetime A Phenomenological Approach*

10:12 M3.02 Charles Manka, et al., Research Support Instruments, *Wavelength Dependant Amplitude of Teflon Raman Lines*

10:24 M3.03 Matthew Krumm , Sam Matteson, The University of North Texas, *Frequency Dependence of End Corrections for a Pipe of Circular Cross Section*

10:36 M3.04 Michael Luvual, McMurray University, *Quantum Game Theory: The Prisoner's Dilemma*

10:48 M3.05 Benny Urban, The University of North Texas, *Novel ZnO/Hydrogel Detection System for Bio Imaging*

11:00 M3.06 James M. Rejcek, Nail G. Fazleev, University of Texas at Arlington, *Using the Feynman-Kac Path Integral Method in Computing Eigenvalues and Matrix Elements for the Infinite Square Well with a Negative Delta Potential*

11:12 M3.07 James Espinosa, Texas Woman's University, *Von Mises Probability and Hilbert Space*

11:24 M3.08 Sam Matteson, The University of North Texas, *The Acoustic Simple Harmonic Oscillator: Experimental Verification and Applications*

11:36 M3.09 Naveen Ramunigari, Raul Corral, Paul Rodriguez, University of Texas at El Paso, *Analysis Of Flow Around A Two Dimensional Body*

11:48 M3.10 Edward Butterworth, Texas A&M-Kingsville, *A general analytic solution for the B-field produced at all points in space by a solenoid of arbitrary length*

12:00 M3.11 Brian Yust, et al., University of Texas at San Antonio, *Comparison of optical properties of cultured and excised ocular tissues as single- and multi-layered structures*

## **Email Access – 2<sup>nd</sup> Floor Computer Lab**

On both Friday and Saturday, you may access your email accounts using the computers in the 2<sup>nd</sup> Floor Computer Lab.