**12:00 PM J. Heera, T. Singh, T. Starosta, A. Thomas, M. Kiani (A) and B. Wang (A), “Low Cost Device for Testing Aerobic Performance in Rodents”**

 **12:20 PM R. Sharma, G. Callan, E.A. Alsamh, J. Cooperman, J. David, N. Bharadwaj (A), “Low Cost Device for Testing Aerobic Performance in Rodents – A Business Plan”**

 **12:40 PM F. Bolger, R. Cornely, B. Sauers and K. Darvish (A), “Development of a Shock Tube for Research in Traumatic Brain Injuries”**

 **1:00 PM R. Nazian, K. Parkins, R. Pennock, S. Selkregg and R. Cohen (A), “Testing of Yamaha Genesis 80FI Engine for the Formula SAE Racecar”**

 **1:20 PM P. Kobylkevich, K. Lewis, E. Wienckoski and V. Peridier (A), “Optimizing Damper Stiffness in Formula Racecars Using MR Fluid”**

 **1:40 PM D. Duong, J. Bullock, I. Kamara, D. Johnson and A. Dlioyan (A), “Enhanced Wind Turbine Performance using Compliant Rotor Technology”**

 **2:00 PM BREAK**

 **2:20 PM A. Gland, M. Judge, L. Orner and S. Bontha (A), “Effect of Coolant Passage Design Parameters on Fluid Pressure and Velocity Distribution**

 **2:40 PM M. Lukas, N. Prodigalidad, A. Diloyan (A), K. Carmody (A) and C. Holliday (A), “Diesel Propulsion Drone”**

 **3:00 PM N. Elkaddi, T. Heffernan, J. Li, D. Lin and N. Pleshko (A), “An Apparatus to Study the Effects of Mechanical Input on Articular Cartilage Growth”**

 **3:20 PM S. Barrett, J. Childs, D. Cun, E. Messina and P. Hutapea (A), “Development of a Hybrid Fuel Cell Electric Powertrain”**

 **3:40 PM R. Hagel, S. Meyer, A. Patel, D. Reo and S. Ridenour (A), “Energy Modeling to Reduce Energy Consumption”**

**12:00 PM H. Mohammad, P. Patel, E. Shepard, S. Shepard and F. Udoeyo (A), “Evaluating CKD in Self-Consolidating Concrete Mixtures”**

**12:20 PM B. Kovach, G. Leonhard, F. Benoit, A. Khalil and F. Udoeyo (A), “Predicting Moment and Shear Capacities of SCC Using Dimensional Analysis”**

 **12:40 PM A. Muneem, M. Burns, E. Long, F. Ogunlokun and S. Shah (A), “Improved Free-Flow Hydroturbine Performance Using a Ducted Design”**

 **1:00 PM T. Akgun, D. Kapral, R. Sgarlat and R. Ryan (A), “The Performance of an Engineered Wetland to Control Eutrophication”**

 **1:20 PM B. Angelina, B. Bruening, C. Eckhart, E. Kibaroglu and X. Zhang (A), “Adaptive Structural Retrofits Using Building Information Modeling**

 **1:40 PM T. Gallen, J. Huber, P. Vila and R. Ryan (A), “Harvesting Stormwater Runoff for Urban Farm Irrigation”**

 **2:00 PM BREAK**

 **2:20 PM A. Baxter, A. Branco, J. Laskin, L. Solomon and S. Shah (A), “Design and Construction of a Solar Powered Space Heater”**

 **2:40 PM P. Attalla, J. Barta, N. Boateng, H. Patel and A. Pillapakkam (A), “Pure Energy”**

 **3:00 PM S. Dobron, C. Fuentespina, P. Patel, C. So and N. Khoury, “Maximizing the Performance of a Pervious Pavement System”**

 **3:20 PM A. Atif, A. Lane, E. Panzo, M. Swartwood, B. Worthington, W. Miller (A) and X. Zhang (A), “ASCE 2011Concrete Canoe Competition”**

 **3:40 PM R. Burke, S. Demmer, K. Nuzha, K. Ravasio, M. Boufadel (A), S. Shah (A), N. Khoury (A) and J. Picone (A), “Efficient Energy Using a Submersed Closed-Loop Geothermal System”**

 **12:00 PM A. Maret, T. Moua, Y. Shi, K. Te, S. Biswas (A) and F. Ferrese (A), “Intelligent Reconfigurable Power Grid”**

 **12:20 PM G. Mandore, A. Master, J. Quaile, M. Setzman and N. Bharadwaj (A), “Intelligent Reconfigurable Power Grid – A Business Plan”**

 **12:40 PM K. Carter, R. Hughes, K. Vekaria, S. Biswas (A) and J. Chen (A), “Engine Heat Power Recovery From Thermoelectric Generation”**

 **1:00 PM N. Ulianova, N. Penmetcha, C. Kambi, J. Conlon and N. Bharadwaj (A), “Engine Heat Power Recovery From Thermoelectric Generation – A Business Plan”**

 **1:20 PM J. Lester, E. Mile, S. Fehr and Z. Zdenka (A), “Implantable Blood Pressure Monitor”**

 **1:40 PM P. Zhang, C. Fahnestock, M. Sharma, S. Lauer and N. Bharadwaj (A), “Implantable Blood Pressure Monitor – A Business Plan”**

 **2:00 PM BREAK**

 **2:20 PM T. Adeyemi-Wilson, A. Attalla, G. Danilchenko, C. Tufts and D. Silage (A), “Multi-Function Touch Screen Display Using Vehicle On-Board-Diagnostics”**

 **2:40 PM P. Boonpoon, S. Countley, N. Torres, X. Liu and N. Bharadwaj (A), “Multi-Function Touch Screen Display Using Vehicle On-Board-Diagnostics – A Business Plan”**

 **3:00 PM S. Abdul-Malik, C. Augustin, M. McCollum, W. Maignam, Z. Delalic (A) and F. El-Turky (A), “Universal Remote Locator Device Using an RF Transmitter and Receivers”**

 **3:20 PM H. Han, S. McGowan, N. Flynn, J. Margolis, and N. Bharadwaj (A), “Universal Remote Locator Device Using an RF Transmitter and Receivers – A Business Plan”**

 **3:40 PM T. Driscoll, F. Lin, V. Patel, T. Nguyen and F. El-Turky, “Data Glove Gesture Recognition for Augmented Reality Applications”**

 **12:00 PM Y. Balter, J. Buranich, J. Gro, I. Mushaeva and I. Obeid (A), “A Non-invasive Brain to Computer Interface System for Video”**

 **12:20 PM A. Dubensky, T. Cheang, D. Mansour, E. Welsh and N. Bharadwaj (A), “A Non-invasive Brain to Computer Interface System for Video – A Business Plan”**

 **12:40 PM G. Fava, J. Gregorio, J. Jackson, D. McGovern and J. Picone (A), “Hybrid DSP/Vacuum Tube Amplifier”**

 **1:00 PM R. Taylor, K. Dumont, S. Bedi, S. Hagarty and N. Bharadwaj (A), “Hybrid DSP/Vacuum Tube Amplifier – A Business Plan”**

 **1:20 PM L. Mensah, J. Reedy, R. Santin, R. Voshchilo, R. Ryan (A) and B. van Aken (A), “The Percolator Project: Providing Developing Nations With Low Cost Drinking Water”**

 **1:40 PM R. Hughes, J. Isles, J. Martin, M. Pisarek and A. Diloyan (A), “A High Efficiency Oil Circulation System for a Windmill Gearbox”**

 **2:00 PM BREAK**

 **2:20 PM W. Ahmed, N. Garcia-Acosta, B. Heard, L. Kouai, S. Biswas (A) and J. Chen (A), “Wind Turbine Blade Pitch Control”**

 **2:40 PM A. Bernd, L. Hume, A. Kulp and S. Shah (A), “Solar Concentrator: Improving the Efficiency of Solar Collection”**

 **3:00 PM K. Choi, N. Al Faraj, J. Felici, B. Smith and S. Shah (A), “Solar Concentrator: An Angled Attack on the Energy Crisis”**

 **3:20 PM M. Doumbai, G. Nowicki, R. Pierre, T. Stanczyk, M. Boufadel (A), S. Shah (A) and J. Picone (A), “Renewable Energy Using High-Efficiency Turbines”**

 **3:40 PM J. Argenio, J. Gonzalo, J. Harper, B. Mamistvalov, M. Boufadel (A), S. Shah (A) and J. Picone (A), “Harnessing Wind Energy for the Integration of Sustainable Energy”**

**12:00 PM G. Wells, J. Zebly, D. Bolger, X. Liu and J. Helferty (A), “Sub-Orbital High Energy Particle Observer”**

 **12:20 PM R. Nash, C. Santin, A. Youssef, T. Nguyen and J. Helferty (A), “NASA Lunabotics Mining Competition”**

 **12:40 PM J. Deleon, R. Jabar, T. Phan, B. Williams and S. Keong (A), “Biometric Detection for Improved University Attendance”**

 **1:00 PM Y. Haluza, M. Sehgal, G. Tedesco, R. Komulainen and T. Sullivan (A), “Vehicle Magnetic Field Reduction for Mine Protection”**

 **1:20 PM M. Ahmed, Y. Liu, H. Nguyen, S. Patel and C. Won (A), “Indoor Aerial Autonomous Coaxial Rotorcraft”**

 **1:40 PM T. Boger, S. Kandi, R. Keyes, C. Won (A) and S. Biswas (A), “Nonlinear Control of Laser Targeting System”**