TECHNICAL TALKS
UNM-LA
Rm. 606

Time	Field	Student's Name	Presentation Title	Judges
1:00-1:25				
1:25-1:50	Non-Technical	Chantell Murphy	Prioritizing Acquisition Pathways in the State Level Concept	Baca, D. Rokop, K.
1:50-2:15	Materials Science	Sophia Barkhudarova	Materials for Cell Studies and Harvesting	Koh, W. Bremser, J.
2:15-2:40	Materials Science	Breaunnah Bloomer	Evolution of Geopolymer Binder Structure During the Initial 45 Days of Formation	Koh, W. Bremser, J.
2:40-3:05	Materials Science	Brandon Runnels	Modeling of Thermally Activated Dislocation Cross-Slip	Koh, W. Bremser, J.
3:05-3:30	Materials Science	Nathaniel Sanchez	Dynamic Damage Evolution in Aluminum	Liu, C. Lovejoy, K.
3:30-3:55	Materials Science	Kathleen Weichman	Measurement and Modeling of Thermal Contact Resistance for Ion Beam Applications	Liu, C. Lovejoy, K.
3:55-4:20	Materials Science	Vaughn Hartung	Experimental Application of a Laminar Fluid Model for Non- Newtonian Fluid Flow	Margevicius, K. Lovejoy, K.
4:20-4:45	Engineering	Ricardo Martinez	Ultrafast Laser Fabrication of Microfluidic Devices	Liu, C. Moore, M.

TECHNICAL TALKS
UNM-LA
Rm. 608

Time	Field	Student's Name	Presentation Title	Judges
1:00-1:25	Physics	Alina Blinova	Tiny Bubbles in my BEC	Colgan, J. Ilie, R.
1:25-1:50	Physics	Samuel Shaner	Investigation of Shock Conditions in Dense Plasmas	Colgan, J. Ilie, R.
1:50-2:15	Physics	Leslie Kerby	Preequilibrium Emission of Light Fragments in Spallation Reactions	Colgan, J. Ilie, R.
2:15-2:40	Physics	Trevor Ivanov	Particle Size Dependence of Raman Spectroscopy	Johnson, J. Ilie, R.
2:40-3:05	Physics	Peter Schulze	Ultrafast Dynamic Ellipsometry of Laser Shocked Liquids	Johnson, J. King, G.
3:05-3:30	Physics	Brian Granzow	Numerical Simulation and Analytical Study of Instability Growth in Solids	Johnson, J. King, G.
3:30-3:55	Physics	Adam Wachtor	Implicit LES of a Forced Passive Scalar	King, G. Ueland, B.
3:55-4:20				
4:20-4:45				

TECHNICAL TALKS
UNM-LA
Rm. 610

Time	Field	Student's Name	Presentation Title	Judges
1:00-1:25				
1:25-1:50				
1:50-2:15	Engineering	David Parkinson	Particulate Separation from the Outlet Gas of Plutonium Pyrochemical Processes	Foropoulous, J. Yeager, J.
2:15-2:40	Materials Science	Joseph Koby	Examining the Mechanical Response of Impact Sensitivity Test Hardware	Jain, P. Yeager, J.
2:40-3:05	Materials Science	Satyesh Yadav	First Principles Modeling of Metal/Ceramic Multilayer Nano-heterostructures	Jain, P. Yeager, J.
3:05-3:30	Materials Science	Miguel Santiago Cordoba	Protein Adsorption on Nanostructured Surfaces	Jain, P. Margevicius, K.
3:30-3:55	Engineering	Lin Zheng	Limited Volume Chilled Water System Design – Flow Analysis	Moore, M. Ryu, J.
3:55-4:20	Computing	Catherine Rogers	Assessing the Impact of Vaccination Refusal on Pertussis Spread	Ryu, J. Moody, D.
4:20-4:45	Engineering	Nicholas Brennan	Optimizing the Performance of a 3 Megawatt VHF Amplifier	Moody, D. Gordon, L.

TECHNICAL TALKS
UNM-LA
Rm. 625

Time	Field	Student's Name	Presentation Title	Judges
1:00-1:25	Engineering	Cameron Knapp	Manufacturing of Plutonium Tensile Specimens	Carrara, M. Flippo, K.
1:25-1:50	Engineering	Lucas Tucker	Benchmarking SOURCES 4C with Isotopic Neutron Sources and Uranium Compounds	Carrara, M. Flippo, K.
1:50-2:15	Engineering	Jon Hansen	Attractiveness of Spent Fuel Material from KLT-40S Reactor	Carrara, M. Flippo, K.
2:15-2:40	Math	Aaron Schild	Constrained Graph Optimization: Preservation and Interdiction Problems	Carrara, M. Junghans, C.
2:40-3:05	Computing	William Casson	The Adversarial Route Analysis Tool: A Web Application	Junghans, C. Moody, D.
3:05-3:30	Computing	Geoffrey Fairchild	Sensitivity Analysis of a Synthetic Human Activity Model	Junghans, C. Moody, D.
3:30-3:55	Biosciences	Eric Generous	Parametric Uncertainty in Foot-and-Mouth Disease Epidemiological Models	Hall, R. Fox, D.
3:55-4:20	Chemistry	Dallas Reilly	Chemical Speciation Analysis of an Unusual Industrially Prepared Uranium Oxide	Hall, R. Fox, D
4:20-4:45				

TECHNICAL TALKS
UNM-LA
Rm. 627

Time	Field	Student's Name	Presentation Title	Judges
1:00-1:25	Computing	Ke Liu	Hard Disk/Solid State Drive Synergy in Support of Data-Intensive Computing	Strevell, M. Paiton, D.
1:25-1:50	Computing	Ryan Wollaeger	An Analysis of Source Tilting and Sub-Cell Opacity Sampling for IMC	Strevell, M. Paiton, D.
1:50-2:15	Computing	Raymond Hendon	Radiation Hydrodynamics Test Problems with Linear Velocity Profiles	Strevell, M. Paiton, D.
2:15-2:40	Engineering	Veronica Saeger	Explosively Formed Projectile	Prestridge, K. Gordon, L
2:40-3:05	Earth & Space Science	Zachary Butterfield	Multi-Scale Observation of Nitrogen Dioxide in the Four Corners Region	Ryu, J. Foropoulous, J.
3:05-3:30	Engineering	Marcel Nunez	Buoyant Mixing of RDX Particles in Molten Composition B	Foropoulous, J. Prestridge, K.
3:30-3:55	Engineering	Peter Mancini	Modeling the Interaction Between a Planar Shock Wave and a Square Cavity	Prestridge, K. Gordon, L.
3:55-4:20	Engineering	Kimberly Clark	A Comparison of MCNP-Based Transport Codes for Subcritical Calculations	Prestridge, K. Gordon, L.
4:20-4:45				