Friday, April 10, 2015
5:30-7:00  Registration and Poster Preparation, Lobby and Big Butte Room
6:00-7:00  Reception and Poster Session, Big Butte Room
7:00-8:00  MAS Annual Banquet, Copper Lounge
8:15-~9:30 Poster Session (Continued), Big Butte Room

Saturday, April 11, 2015
7:30-9:00  Board of Directors Meeting, Pintler Room
8:00-8:50  Breakfast (Dining Room)
9:00-10:30 Presentation Session I, Copper Lounge
9:30-     Junior Academy Breakout Session, Kelley/Steward Room
10:30-10:45 Coffee Break, Lobby
10:45-12:00 Presentation Session II, Copper Lounge
10:45-12:00 Presentation Session III, Big Butte Room
12:00-1:00 Lunch (Dining Room)
1:00-2:45 Presentation Session IV, Copper Lounge
1:00-3:00 Presentation Session V, Big Butte Room

The Board of Directors of the Montana Academy of Sciences would like to thank the sponsors of the 2015 Annual Meeting:

Dr. Bob Wilmouth, President, Rocky Mountain College
Dr. Doug Coe, Dean, College of Letters, Sciences and Professional Studies, Montana Tech
Dr. Beverly Hartline, Vice Chancellor for Research, Montana Tech
Dr. Renee Reijo Pera, VP for Research, Montana State University
Dr. Beth Weatherby, Chancellor, University of Montana – Western
Department of Biological and Physical Sciences, Montana State University – Billings
Presentation Session I (Copper Lounge)

9:00  Junior Academy Talk
9:15  Junior Academy Talk
9:30  “Life history traits of solitary bees as mediators of responses to climate-warming: phenological shifts, body size, and life span.” Anthony Slominski, MSU
9:45  “Metabolites, Metabolic Hormones, and Hematological Profiles in Mountain Goats (Oreamnos americanus) before the Breeding Season and during the First Trimester of Pregnancy.” Melissa Herrygers, MSU
10:00 “BH3I-1 derivatives inhibit the filamentous growth of the CEA10 strain of Aspergillus fumigatus.” Rochelle Johnson, MSU-B
10:15 “Indigenous community impacts of large corporations in Arctic communities: specific focus on social justice and sustainability for the Swedish Sami.” Jon-Eric Krans, UGF

Presentation Session II (Copper Lounge)

10:45 “Identification of heavy metal hyper-accumulating fauna in the Butte Montana region through the use of ICP analysis.” Olivia Coguill, Montana Tech
11:00 “Examining Antibody to Sin Nombre Virus in Rodents Associated with Peridomestic Habitats in North East Montana.” Paul Engstrom, Montana Tech
11:15 “Seasonal Differences in hantavirus prevalence in deer mice captured in ranch buildings in southwestern Montana.” Richard McEwen, Montana Tech
11:45 “Macroinvertebrate Community Assemblage from Canyon Ferry to Great Falls Along the Missouri River.” Marilyn E. Wright, UGF

Presentation Session III (Big Butte Room)

10:45 “Developing Reproducible Antibacterial Surfaces Using Thermal Imprint Technology.” Emily Kooistra-Manning, Montana Tech
11:00 “Utilization of Electrospinning Technique to Decorate Nanofibers for Biomedical Applications.” Heidi Reid, Montana Tech
11:15 “Touchless Thermal Respiratory Monitor.” Jonathan Schulz, Robin Hallett; Montana Tech
11:45 “Isolation of essential oils from Indigenous Montana flora and their antimicrobial effectiveness as a non-toxic sterilizing reagent against bacteria that cause food borne illness.” Samantha Miner, Montana Tech
### Presentation Session IV (Copper Lounge)

1:00  “Determining Nitrate and Phosphate Levels in Blacktail Creek.” Garrett Craig, Montana Tech  
1:15  “Evaluation of Differences in Body Composition and Carcass Characteristics in Lambs Divergent in Residual Feed Intake.” Katharine Perz, MSU  
1:30  “Analysis of craniofacial skeletal and soft tissue anatomy of the eye in relation to reduced visual acuity in humans.” Sarah Queer, Montana Tech  
1:45  “Using Click Chemistry to Modulate the Aggregation of the Parkinson’s Disease Protein.” Tyann Kuehn, Montana Tech  

#### Break

2:00  

2:15  “Analysis of Urban Humans and their Spatial Allowance for Predators.” Theodore Darnell, Montana Tech  
2:30  “Blogging and Tweeting About Teaching: Teachers’ Perceptions of Informal Online Professional Networks.” H. Smith Risser, Montana Tech

### Presentation Session V (Big Butte Room)

1:00  “Preparation for Using Fiber Optic Cables to Monitor Distributed Strain and Temperature Profiles in an Underground Mine Setting.” Hannah Kuchinsky, Montana Tech  
1:15  “Use of Fiber Optic Cables to Monitor Strain and Temperature in a Borehole, and Temperature Profile in a Flooded Shaft.” Kaitlyn O’Connell, Montana Tech  
1:30  “The Fantastic and The Modern Experience.” Quincy Riordan, Montana Tech  
1:45  “Chronic Fatigue Syndrome: A study of Southwestern Montana Health Care Providers Diagnosis Criteria and the Treatment Plan.” Reece Gendreau, Montana Tech  

#### Break

2:00  

2:15  “Concurrency in a Real-Time Multi-User Simulation.” Steve Wilson, Montana Tech  
2:30  “Composition Operators on Weighted Bergman and S^p Spaces.” Waleed Al-Rawashdeh, Montana Tech  
2:45  “Design and Development of Large Scale Data Collection for Eyes Free Text Entry.” Vernon Foley, Montana Tech