Schedule of Presentations - Wednesday, October 11, 2017

Room	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8	Room 9	Room 10	Room 11
Topic	**Conservation Across Boundaries - Laramie Foothills: A Conservation Success Story Symposium**	**Conservation Across Boundaries - Tools**	**Communicating about Natural Areas Conservation**	**Restoration in the Anthropocene**	**Value of Ecosystem Services**	**Restoration in the Anthropocene**	**Technology for Land Management Success**	**Natural Areas Management in Light of a Changing Climate**	**Invasive Species Management**	**Restoration in the Anthropocene**	
Time	*Moderator: Mark Sears*	*Moderator:*	*Moderator:*	*Moderator:*	*Moderator:*	*Moderator:*					
8:00	JOHN STOKES: LARAMIE FOOTHILLS LAND CONSERVATION PLANNING AND CONSERVATION	MOLLY MCCORMICK: RESTORATION ASSESSMENT AND MONITORING PROGRAM FOR THE SOUTHWEST (RAMPS)	TRACY BOUTELLE FIDLER: HOW THE DEINITION OF NATURAL AREAS HAS SHIFTED OVER TIME AND HOW IT AFFECTS OUR ABILITY TO COMMUNICATE THE VALUE OF SUCH PLACES	KATHRYN M. BARLOW: PATTERNS OF PLANT COMMUNITY ASSEMBLY AFTER RECLAMATION WITH NATIVE PLANTS	PETER A. DRATCH: MONITORING THE NATURAL QUALITY OF DESIGNATED WILDERNESS	STEPHEN E. FICK: DISTRIBUTION MODELLING OF PRE-COLUMBIAN CALIFORNIA GRASSLANDS WITH SOIL PHYTOLITHS: NEW INSIGHTS FOR RESTORATION AND PREHISTORIC GRASSLAND ECOLOGY	BRIAN KNOWLES: GETTING TO THE ROOT OF LAND MANAGEMENT SUCCESS: DATA MANAGEMENT IS KEY	GREGOR SCHUURMAN: 'RESILIENCE' – IT'S EVERYWHERE, BUT WHAT DOES IT MEAN IN A CLIMATE CHANGE ADAPTATION CONTEXT?	CLAUDIA L. JOLLS: IS BIOLOGICAL CONTROL OF WEEDY PLANTS BY INSECTS EFFECTIVE AND SAFE?	JENISE M. BAUMAN: PLANT COMMUNITY RECOVERY AND SOIL DEVELOPMENT WITHIN FOUR ESTUARY RESTORATION PROJECTS IN WESTERN WASHINGTON	
8:30	JASON LABELLE: 12,000 YEARS IN THE LARAMIE FOOTHILLS: THE IMPORTANCE OF CULTURAL RESOURCE IDENTIFICATION AND PROTECTION	RAQUEL WERTSBAUGH: COLORADO NATURAL AREAS PROGRAM: A CONSERVATION MODEL USING VOLUNTARY AGREEMENTS	ADAM D. MCCURDY: THE FOREST HEALTH INDEX: AN INTERATIVE PLATFORM TO COMMUNICATE AND VISUALIZE CHANGES IMPACTING NATURAL AREAS	DANIEL L. MUMMEY: PRE-ESTABLISHED PLANT INFLUENCES ON ANTELOPE BITTERBRUSH (PURSHIA TRIDENTATA PURSH) SEEDLING RECRUITMENT AND GROWTH: ANALYSIS OF SPECIES AND POSITIONAL EFFECTS	MICHAEL D. BELL: WHY CARE ABOUT AIR? LINKING IMPACTS OF AIR QUALITY IN NATURAL SYSTEMS TO ECOSYSTEM SERVICES	KRISTINA M. HUFFORD: USING BOTANICAL COLLECTIONS TO INFORM CONSERVATION AND RESTORATION OF THREATENED PLANT COMMUNITIES	CARLA REBERNAK: SOIL DATA AVAILABILITY FOR MANAGEMENT OF NATURAL AREAS	ESTHER D. STROH: MAPPING FUTURE FIRE-CLIMATE SUITABILITY THRESHOLDS FOR THREE SOUTH CENTRAL U.S. WOODY ECOSYSTEMS	THOMAS R. ROSBURG: TREE CUTTING AND GOAT BROWSING IN A SAVANNA RESTORATION: EFFECTS ON MICROCLIMATES AND VEGETATION	JODY NELSON: ECOLOGICAL RESTORATION OF A SUPERFUND SITE (ROCKY FLATS SITE, COLORADO)	
9:00	CRYSTAL STROUSE: RARE PLANTS AND PLANT COMMUNITIES AT SOAPSTONE PRAIRIE	MELANIE PETERS: SCENIC VIEWS NEED MORE THAN APPRECIATION: A NATIONAL PARK SERVICE APPROACH	KRISTY BURNETT: USING SOCIAL MEDIA TO BUILD AWARENESS FOR NATURAL RESOURCE ISSUES	ANDREW P. RAYBURN: 20 YEARS OF COLLABORATIVE RIPARIAN RESTORATION: LONG-TERM RECOVERY OF CACHE CREEK AFTER CURTAILMENT OF IN-CHANNEL GRAVEL MINING	DREW BENNETT: ESTIMATING COLORADO'S RETURN ON INVESTMENTS IN CONSERVATION EASEMENTS	JAMES F. ROSSON: USING TREE SPECIES DOMINANCE AS AN INDICATOR OF DEGRADED SHIFTS IN POPULATION STRUCTURE AND DIVERSITY	KATHRYN NUESSLY: NEW DIRECTIONS IN MODELING AND COMMUNICATING NOISE IMPACTS IN NATIONAL PARKS	MIRANDA D. REDMOND: CLIMATE AND LANDSCAPE PHYSIOGRAPHY INTERACT TO CONTROL TREE GROWTH IN SEMI-ARID AND SUBALPINE ECOSYSTEMS OF THE ROCKY MOUNTAINS	JONATHAN M. SULLIVAN: EXPLORING EDGE EFFECT AND THE IMPACT OF INVASIVE VEGETATION ON SNOWY PLOVER NESTING SUCCESS	JILLIAN R. PASTICK: ADAPTIVE MANAGEMENT EXPERIMENTS FOR RESTORATION OF OAK ECOSYSTEMS: EFFECTS OF CANOPY THINNING ON SEEDLING REGENERATION AND GROUND LAYER PLANT COMMUNITIES	
9:30	DAYLAN FIGGS: LARAMIE FOOTHILLS - ENERGY BY DESIGN: A COLLABORATIVE SCIENCE BASED PLAN FOR ENERGY DEVELOPMENT	KURT DREISILKER: IMPLEMENTING ECOLOGICAL RESTORATION BEYOND OUR BOUNDARY: STRENGTHENING COLLABORATIONS WITH ONLINE LEARNING FOR VOLUNTEER STEWARDS	SARA MELENA: SOMETIMES THE BEST RELATIONSHIP IS A LONG-DISTANCE RELATIONSHIP: A COMMUNICATION CAMPAIGN TO INFLUENCE HUMAN BEHAVIOR AROUND WILDLIFE	ERIKA VALEK: CHALLENGES OF UTILIZING MUNICIPAL COMPOST AS AN AMENDMENT IN BOREAL FOREST RECLAMATION ON NUTRIENT POOR SITES	JANE RICE: MARKET-BASED CONSERVATION: LESSONS LEARNED IN PROGRAM DESIGN	SASHA L. VICTOR: DIFFERENTIAL EFFECTS OF INVASIVE SPICIES ON SANDBERG'S BLUEGRASS COMPETITIVE ABILITY AND TOLERANCE	NOEL BACHELLER: APPLICATION OF MACHINE LEARNING METHODS TO PREDICTION OF FUTURE VEGETATION COMPOSITION IN A DIKED COASTAL ESTUARY BASED ON HYDROLOGICAL PARAMETERS MODELED UNDER DIFFERENT DIKE ALTERATION AND RESTORATION SCENARIOS	PETER J. WEISBERG: SEASONAL WATER BALANCE DRIVES THE DISTRIBUTION OF PLANT FUNCTIONAL GROUPS IN A SEMI-ARID REGION	KENNETH E. WALLEN: THE EFFICACY OF SOCIAL NORMS AS A TOOL FOR AQUATIC INVASIVE SPECIES MANAGEMENT	DAVID J. ROBERTSON: TWO DECADES OF INTENSIVE FOREST STEWARDSHIP IMPROVE STAND INTEGRITY BUT NOT RESILIENCY	
10:00	Mid-morning Break	Mid-morning Break	Mid-morning Break	Mid-morning Break	Mid-morning Break	Mid-morning Break	Mid-morning Break	Mid-morning Break	Mid-morning Break	Mid-morning Break	Mid-morning Break
Topic	**Conservation Across Boundaries - Laramie Foothills: A Conservation Success Story Symposium**	**Managing for an Uncertain Future: Climate Adaptation for Parks and Natural Areas**	**History and use of Research Natural Areas Symposium**	**Pile Burning: Ecological Consequences, Restoration Strategies and Management Alternatives Symposium**	**U.S. National Vegetation Classification: Crossing Boundaries with Classification**	**Overstory and Understory Relationships: Exploring Effects of a Shifting Overstory on an Herbaceous Understory Symposium**	**Native Seed**	**Natural Areas Management in Light of a Changing Climate**	**Developing a Collaborative Strategy to Manage Invasive Winter Annual Grasses throughout the West Symposium**	**Burners without Borders: Cross-Boundary Planning and Implementation of Controlled Burning to Restore Forests Symposium**	**Keys to Conservation Careers**
10:30	*Moderator: Mark Sears* JENNIFER P. BARFIELD: ASSISTED REPRODUCTION AS A TOOL TO MITIGATE DISEASE, PRESERVE GENETICS AND FACILITATE MOVEMENT OF GENETICS ACROSS LANDSCAPES FOR BISON: THE LARAMIE FOOTHILLS BISON CONSERVATION HERD	*Moderator:* JOHN GROSS: CLIMATE CHANGE ADAPTATION FOR NATURAL AREAS: EMBRACING THE UNKNOWN	*Moderator:* J. STEPHEN SHELLY: RESEARCH NATURAL AREAS IN THE U.S. FOREST SERVICE: 90 YEARS OF PROGRESS, AND A LOOK TOWARD THE FUTURE	*Moderator:* ERIC SCHRODER: TALLYING THE IMPLICATIONS OF PILE BURNING FOR MULTIPLE RESOURCE MANAGEMENT IN FUEL REDUCTION AND FOREST HEALTH PROJECTS IN THE ROCKY MOUNTAIN REGION	*Moderator:* SCOTT B. FRANKLIN: INTRODUCTION TO THE U.S. NATIONAL VEGETATION CLASSIFICATION	*Moderator:* TYLER BASSETT: EFFECTS OF PRESCRIBED FIRE AND THINNING DURING MIDWESTERN OAK SAVANNA RESTORATION	*Moderator:* JUDY PERKINS: MOJAVE DESERT NATIVE PLANT PROGRAM: IMPLEMENTING THE NATIONAL SEED STRATEGY IN THE MOJAVE DESERT ECOREGION	*Moderator:* HELEN R. SOFAER: MODELING ECOLOGICAL RESPONSES TO CLIMATE: WHAT ARE THE CHALLENGES AND OPPORTUNITIES?	*Moderator: Dr. Scott Nissen* DEREK SEBASTIAN: EVALUATING A LONG-TERM CONTROL STRATEGY FOR MANAGING INVASIVE WINTER ANNUAL GRASSES - THE TIME TO ACT IS NOW	*Moderator:* ROBERT N. ADDINGTON: IDENTIFYING OPPORTUNITIES FOR COLLABORATIVE CONTROLLED BURNS ON COLORADO'S FRONT RANGE	*Moderator:* KEYS TO CONSERVATION CAREERS: PANEL OF CONSERVATION PROFESSIONALS
11:00	MEEGAN FLENNIKEN: RESTORATION OF GREENBACK CUTTHROAT TROUT TO RED MOUNTAIN OPEN SPACE, LARIMER COUNTY, CO	CAT HAWKINS HOFFMAN: LOST YOUR COMPASS?...WE CAN RELATE. SCENARIO PLANNING FOR CLIMATE CHANGE ADAPTATION IN THE NATIONAL PARK SERVICE	ESTEBAN MULDAVIN: A PROPOSED NATURAL AREAS CLIMATE-CHANGE MONITORING NETWORK FOR THE SOUTHWEST UNITED STATES BASED ON A CLIMATE CHANGE VULNERABILITY INDEX	IAN SEXTON: INCREASED SEEDED NATIVE SPECIES ESTABLISHMENT IN RESTORED SLASH PILE BURN SCARS AT LILY LAKE, ROCKY MOUNTAIN NATIONAL PARK	PATRICK COMER: TOOLS FOR LINKING CLASSIFICATION TO MANAGEMENT	CARTER S. KINKEAD: WOODLAND GROUND FLORA CHANGES IN RELATION TO OVERSTORY STRUCTURE IN THE OZARK HIGHLANDS	ANNE HALFORD: CROSS-POLLINATION - FUNDING, TOOLS AND PARTNERSHIPS TO MEET OUR NATIONAL SEED STRATEGY GOALS	HEALY HAMILTON: APPLICATIONS OF SPECIES DISTRIBUTION MODELING TO BIODIVERSITY MANAGEMENT AND CONSERVATION IN AN ERA OF RAPID GLOBAL CHANGE	SHANNON CLARK: COMPARING NATURAL AREAS HERBICIDE MANAGEMENT OPTIONS FOR DOWNY BROME (BROMUS TECTORUM L.) CONTROL AND NATIVE SPECIES TOLERANCE	MICHAEL D. CAGGIANO: USING COOPERATIVE AGREEMENTS AND LOCAL RESOURCES TO INCREASE THE SCALE OF CONTROLLED BURNING IN NORTHERN COLORADO	
11:30	DANIEL W. TRIPP: PLAGUE MITIGATION PREVENTS PLAGUE-ASSOCIATED PRAIRIE DOG COLONY COLLAPSE	DON WOJCIK: INTEGRATING CLIMATE CHANGE INTO PLANNING FOR NATURAL AREAS: AN NPS PLANNER'S PERSPECTIVE AND EXPERIENCE	MICHELLE COPPOLETTA: FIRE-AND RESEARCH NATURAL AREAS IN CALIFORNIA: RESTORING A KEY ECOLOGICAL PROCESS TO REFERENCE LANDSCAPES	W.J. MASSMAN: MODELING SOIL TEMPERATURES DURING FIRES REQUIRES MODELING UNRESOLVED ASPECTS OF SOIL MOISTURE AND WATER VAPOR DYNAMICS	KARL BROWN: SYNERGIES IN MAPPING AND CLASSIFICATION: NPS EXPERIENCE AND FUTURE DIRECTIONS	RYAN F. LIMB: GREAT PLAINS PLANT COMMUNITY CHANGES ASSOCIATED WITH JUNIPER ENCROACHMENT	PATRICIA BOLLER: RESTORATION-BASED PROCUREMENT TOOLS – FROM NEED TO SEED	JOANNA WU: PROJECTED EFFECTS OF CLIMATE CHANGE ON AVIAN COMMUNITIES IN US NATIONAL PARKS	PAUL MEIMAN: MORE FORAGE AND IMPROVED MANAGEMENT FLEXIBILITY ARE EXPECTED OUTCOMES RESULTING FROM A NEW HERBICIDE FOR INVASIVE WINTER ANNUAL GRASS CONTROL ON RANGELAND	BRYAN KARCHUT: BURNING WITHOUT BORDERS: THE NORTHERN COLORADO FIRESHED COOPERATIVE	
12:00	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
Topic	**Conservation Across Boundaries - Laramie Foothills: A Conservation Success Story Symposium**	**Managing for an Uncertain Future: Climate Adaptation for Parks and Natural Areas**	**History and use of Research Natural Areas Symposium**	**Pile Burning: Ecological Consequences, Restoration Strategies and Management Alternatives Symposium**	**U.S. National Vegetation Classification: Crossing Boundaries with Classification**	**Overstory and Understory Relationships: Exploring Effects of a Shifting Overstory on an Herbaceous Understory Symposium**	**Native Seed**	**Natural Areas Management in Light of a Changing Climate**	**Developing a Collaborative Strategy to Manage Invasive Winter Annual Grasses throughout the West Symposium**	**Burners without Borders: Cross-Boundary Planning and Implementation of Controlled Burning to Restore Forests Symposium**	**Keys to Conservation Careers**
1:30	*Moderator: Mark Sears* JOHN HUGHES: AN OVERVIEW OF BLACK-FOOTED FERRET RECOVERY EFFORTS IN THE GREAT PLAINS AND INTERMOUNTAIN WEST	*Moderator:* BRIAN W. MILLER: EMBRACING COMPLEXITY AND UNCERTAINTY: MERGING SIMULATION MODELING AND SCENARIO PLANNING TO INFORM NATURAL AREAS MANAGEMENT UNDER CLIMATE CHANGE	*Moderator:* ANDY SCOTT: THE RESEARCH NATURAL AREAS OF ALABAMA: HISTORY, NEED, USES, AND FUTURE OPPORTUNITIES	*Moderator:* DEBORAH S. PAGE-DUMROESE: SLASH PILE IMPACTS ON SURFACE AND BELOWGROUND STANDARD SUBSTRATE DECOMPOSITION RATES	*Moderator:* TODD KEELER-WOLF: THE VALUE OF A STANDARD VEGETATION CLASSIFICATION FOR MAPPING AND CONSERVATION: A STATE'S PERSPECTIVE	*Moderator:* CRAIG A. CARR: UNDERSTORY VEGETATION DYNAMICS AND ECOSYSTEM RESILIENCE IN AN EASTERN OREGON PONDEROSA PINE FOREST	*Moderator:* CHRISTOPHER B. WOOLRIDGE: PREDICTIVE PROVENANCING: CAN SOUTHERN-SOURCED SEEDS BE USED IN MIDWEST RESTORATION EFFORTS?	*Moderator:* DAVID J. LAWRENCE: AQUATIC INVASIVE SPECIES RANGE EXPANSIONS IN RESPONSE TO A CHANGING CLIMATE	*Moderator: Dr. Scott Nissen* COREY V. RANSOM: IDENTIFYING HERBICIDE STRATEGIES FOR LONG-TERM CONTROL OF INVASIVE ANNUAL GRASSES: A UTAH PERSPECTIVE	*Moderator:* MATTHEW P. THOMPSON: FIRES DON'T KNOW OWNERSHIP BOUNDARIES, NEITHER DO CONTROL OPPORTUNITIES; LET'S PLAN WITH THAT IN MIND	*Moderator:* USA JOBS TRAINING
2:00	ERIN YOUNGBERG: MONITORING THE EFFECT OF SYLVATIC PLAGUE IN BLACK-TAILED PRAIRIE DOGS ON DENSITY AND TRENDS OF GRASSLAND BIRDS IN THE MOUNTAINS TO PLAINS AREA OF NORTHERN COLORADO	SHELLEY D. CRAUSBAY: DEVELOPING PROACTIVE STRATEGIES FOR ECOLOGICAL DROUGHT IN THE 21ST CENTURY	LAURIE HUCKABY: RESEARCH NATURAL AREAS IN US FOREST SERVICE ROCKY MOUNTAIN REGION	JANE E. STEWART: LONG-TERM CHANGES IN SOIL MICROBIAL DIVERSITY AFTER SLASH PILE BURNING	JOANNA LEMLY: APPLICATION OF THE U.S. NVC TO WETLAND RESTORATION: USING CLASSIFICATION TO ESTABLISH APPROPRIATE THRESHOLD FOR WETLAND CONDITION ASSESSMENT	JONATHAN D. BAKKER: SCALE DEPENDENCE OF OVERSTORY-UNDERSTORY RELATIONSHIPS IN DRY, MIXED-CONIFER FORESTS	ANDREW BOWER: NEW MOBILE APPS FOR OFF-LINE USE OF PROVISIONAL SEED ZONES FOR NATIVE PLANTS	DANIELLE BUTTKE: THE CHICKEN OR THE EGG? THE INTERPLAY OF DISEASE AND CLIMATE CHANGE ON WILDLIFE POPULATIONS	DAN TEKIELA: RESPONDING TO NEW INVASIVE ANNUAL GRASS THREATS WITH AN INTERAGENCY WORKING GROUP	YU WEI: PRIORITEIING CONTROLLED BURNS FOR HEADWATER PROTECTION	HUMAN RESOURCES PANEL: PATHWAYS FOR STUDENT ENTRY INTO CONSERVATION JOBS, JOB OUTLOOK
2:30	SYMPOSIUM PANEL DISCUSSION	THOMAS J. TIMBERLAKE: EXAMINING THE U.S. FOREST SERVICE'S CLIMATE CHANGE VULNERABILITY ASSESSMENTS: THEMES AND OPPORTUNITIES	SYMPOSIUM PANEL DISCUSSION	SYMPOSIUM PANEL DISCUSSION	SYMPOSIUM PANEL DISCUSSION	SYMPOSIUM PANEL DISCUSSION	TRIP TO USDA SEED LAB	MICHELLE DEPRENGER-LEVIN: CONSERVATION PLANNING FOR COLORADO'S ALPINE PLANT COMMUNITIES BASED ON HERBARIUM RECORDS: PREDICTING COMMUNITY RESPONSE TO A CHANGING CLIMATE	SYMPOSIUM PANEL DISCUSSION	SYMPOSIUM PANEL DISCUSSION	
3:00	Mid-afternoon Break	Mid-afternoon Break	Mid-afternoon Break	Mid-afternoon Break	Mid-afternoon Break	Mid-afternoon Break		Mid-afternoon Break	Mid-afternoon Break	Mid-afternoon Break	Mid-afternoon Break
Topic	**Closing Plenary**										
3:30	*Moderator:* Introduction: Greg Aplet	*Moderator:*	*Moderator:*	*Moderator:*	*Moderator:*	*Moderator:*					
3:45	Reed Noss										
4:10	Heather Knight										
4:35	Scott Black										
5:00	Panel Discussion										
5:30	All Sessions Adjourn	All Sessions Adjourn	All Sessions Adjourn	All Sessions Adjourn	All Sessions Adjourn	All Sessions Adjourn	All Sessions Adjourn	All Sessions Adjourn	All Sessions Adjourn	All Sessions Adjourn	All Sessions Adjourn

Happy Hour Event