Monday, December 13

EPSCoR faculty Jen Schmidt will present on Goldilocks meets Smokey the Bear: assessing wildfire hazards and communication from 5:18-5:33 AM in room D-2. EPSCoR faculty Robert Ziel is a co-author.

EPSCoR graduate student Jordan Jenckes will present on Seasonal solute cycles and yields from streams across Alaska’s cryosphere from 5:26-5:32 AM in room 238-239. EPSCoR faculty LeeAnn Munk is a co-author.

EPSCoR faculty Jen Schmidt is a co-author on Monika Calef’s Predicting the unpredictable: Future vegetation near Fairbanks, Alaska, taking into account succession and wildfire, which will be presented from 9:53-9:56 AM in eLightning Theater VII.

EPSCoR graduate student Anushree Badola’s poster, Building a spectral library to aid hyperspectral data simulation for boreal Alaska, will be on display from 1-3 PM. EPSCoR co-authors include Santosh Panda, Uma Bhatt, Chris Waigl and Randi Jandt.

EPSCoR faculty Matt Berman’s poster, Understanding rural-urban migration of arctic Indigenous peoples: Evidence from four decades of research on migration decisions, will be on display from 1-3 PM.

EPSCoR faculty Peter Bieniek’s poster, Evaluating possible future rain in winter hazards for major communities in Alaska and the Yukon Territory, will be on display from 1-3 pm. EPSCoR co-authors include Rick Thoman and Jen Schmidt.

EPSCoR Track-2 awardee Hyunju Connor’s poster, MAGICIAN project: machine learning, data collection, and education for space science research, will be on display from 1-3 PM.

EPSCoR faculty Eric Klein is co-author on Liam Kirkpatrick’s poster, Understanding spatial and temporal water isotope variability across the Juneau Icefield, Alaska, which will be displayed from 1-3 PM.

EPSCoR faculty Carl Schmitt’s poster, Hyperspectral measurements of the Mendenhall Glacier, Alaska, will be on display from 1-3 PM. EPSCoR faculty Martin Stuefer is co-author.

EPSCoR graduate student Chris Waigl’s poster, Quantitative and qualitative insights into boreal forest fire fuel type and condition from tree-scale airborne imaging spectroscopy, will be on display from 1-3 pm. EPSCoR co-authors include Martin Stuefer, Anushree Badola, Chris Smith, Santosh Panda and Uma Bhatt.
**Tuesday, December 14**

EPSCoR staff **Joanna Young** will present on *Inspiring Girls Expeditions of Alaska: A model for mentorship and stimulating interest in field sciences for high school youth and early career professionals* from 5:28-5:33 AM in room 217-219. EPSCoR staff Sarah Clement is co-author.

EPSCoR faculty **Eran Hood** is a co-author on Amy Jenson’s *How do changes in glacier and basin geometry affect the evolution of ice-dammed glacier outburst floods?*, which will be presented from 9:47-9:52 AM in room 211-213.

EPSCoR faculty **Todd Brinkman** and student **Megan Perra** are co-authors on Eleanor Davol’s *Automated soundscape analysis reveals strong influence of time since wildfire on boreal breeding birds*, which will be presented from 10:00-10:05 AM in room 252-254.

EPSCoR seed grantee **Thomas Ballinger’s** poster, *The subseasonal-to-seasonal role of blocking atmospheric patterns on Alaska wildfire activity*, will be on display from 1-3 PM. EPSCoR co-authors include Uma Bhatt, Peter Bieniek, Alison York and Robert Ziel.

EPSCoR faculty **Uma Bhatt** is a co-author on Elena Sparrow’s poster *Developing and implementing a culture of diversity, equity, and inclusion at an international research center in an Arctic university to build trusting, caring and professional relationships across international research communities*, which will be on display from 1-3 PM.

EPSCoR faculty **Eran Hood** is a co-author on James Shanley’s poster *Potential changes in riverine biogeochemistry with land cover shifts at the receding Wolverine Glacier, southcentral Alaska*, which will be on display from 1-3 PM.

EPSCoR graduate student **Jordan Jenckes’** poster, *Watershed characteristics and glacial cover control solute generation and export in Gulf of Alaska streams*, will be on display from 1-3 PM. EPSCoR faculty LeeAnn Munk is a co-author.

EPSCoR faculty **Jen Schmidt** is a co-author on Dmitry Nicolsky’s poster *Permafrost hazard mapping in the discontinuous permafrost zone of Alaska*, which will be on display from 1-3 PM.

**Wednesday, December 15**

EPSCoR faculty **Jen Schmidt** will present on *A framework for identifying the limiting factors, underlying causes, and possible solutions in food-energy-water security: A FEW case studies from rural Alaska* from 5:15-5:20 AM in room 206-207.

EPSCoR Track-2 awardee **Hyunju Connor** will present on *Solar minimum hydrogen atom density near a subsolar magnetopause, estimated from the XMM soft X-ray observations, the IBEX ENA observations, and the CASSINI geocorona Ly-alpha observations* from 10:33-10:41 AM in room 386-387.
EPSCoR postdoc **Helena Bergstedt** will present on *High-salinity liquid water as a source of uncertainty in bedfast lake ice mapping on the Arctic Coastal Plain in northern Alaska* from 11:55 AM – noon in room 348-349.

EPSCoR faculty **Simon Zwieback**'s poster, *A user-friendly, multi-parameter protocol for monitoring permafrost thaw*, will be on display from 1-3 pm.

**Thursday, December 16**

EPSCoR faculty **LeeAnn Munk** and student **Jordan Jenckes** are co-authors on Sarah M. Aarons’ *Dust-climate archive time machines*, which will be presented from 5:05-5:08 AM in eLightning Theater IV.

EPSCoR faculty **Uma Bhatt** will present on *A community of practice approach to improving and communicating seasonal sea-ice forecasts* from 5:05-5:10 AM in room 294-296.

EPSCoR faculty **Laura Conner** will present on *Air quality as a socioscientific issue addressed through a University/K-12 partnership* from 11:50-11:55 AM in room 298-299.

EPSCoR faculty **Uma Bhatt** is a co-author on Kaja Brix’s poster, *Activating the space between disciplines to address complex environmental problems*, which will be on display from 1-3 PM.

EPSCoR graduate student **Cecilia Borries-Strigle**’s poster, *Evaluation of the 2020 and 2021 Alaska summer fire seasons from march seasonal forecasts*, will be on display from 1-3 PM. EPSCoR co-authors include Uma Bhatt, Peter Bieniek, Heidi Strader, Rick Thoman, Alison York and Robert Ziel.

**Friday, December 17**

EPSCoR faculty **Eric Klein** is a co-author on Ben Kopec’s *Sea ice controls on the Arctic hydrological cycle: Observational evidence from MOSAiC’s Arctic Water Isotope Network (AWIN)*, which will be presented from 12:20-12:27 PM in room 217-219.

EPSCoR faculty **Simon Zwieback** is a co-author on Go Iwahana’s *Fine-scale ground truth of ground displacement in the Anaktuvuk River Fire (ARF) for satellite and airborne L-band SAR*, which will be presented from 1:00-2:15 PM online.

EPSCoR faculty **Simon Zwieback** is a co-author on Soumitra Sakhalkar’s *InSAR-based analysis of seasonal permafrost deformation in the Yukon Wildlife Refuge*, which will be presented from 1:00-2:15 PM online.