

2019 Statewide Trails Conference

TERRAIN DYNAMICS

Pre-Conference Session Tues. and Weds - April 16th and 17th, 2019

Date/Time: April 16TH AND 17TH - 9:00 AM - 5:00 PM

Location: Class Day, April 16th – UAA Beatrice McDonald Hall (BMH) room 220
Field Day, April 17th – Russian Jack Springs Park South – Map [HERE](#)

Instructor: Mike Shields, Trail Consultant

Description: **TERRAIN DYNAMICS FOR TRAILS FOLKS**

A 2-day in-depth look at the variable nature and basic mechanics of the ground we build trails across, including the potential snares hidden within it. Treats that ground as a dynamic “structure” and covers **slope stability factors** (including on “flat ground”); **soil mechanics** (deposition mechanisms, granulation, density and porosity, internal friction, rock/gravel content, organics, soil chemistry, soil moisture); **terrain hydrology** (water entry, surface and subsurface water movement, drainage area, flat ground drainage, sheet vs channeled flow, the effects of freeze/thaw, “toe of slope” accumulations, “drainable edges” in topography); the role of **bedrock** (simplified rock mechanics) and **vegetation**; all these factors in combination; **surface indicators** of subsurface phenomena; and **using this knowledge** in the selection of trail routes, grades, structures and drainage systems that work. Includes classroom and field exercises, and a binder of reference material.

Cost: \$300 / person

Class Size is Limited to **14** participants. Please wear field clothes both days. Bring a clinometer and/or GPS receiver if you have them and **pack a lunch for each day.**

Registration SOON at the Alaska Trails Conference Website:

<http://www.alaska-trails.org/2019-trails-conference.html>