

| UTC Project Information | |
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| Project Title | Long-term Stabilization of Disturbed Slopes Resulting from Construction Operations |
| University | University of Alaska Fairbanks |
| Principal Investigator | Robert A Perkins |
| PI Contact Information | raperkins@alaska.edu 907 479 3906 |
| Funding Source(s) and Amounts Provided (by each agency or organization) | CESTiCC, \$ 59,258 UAF, \$27,495 |
| Total Project Cost | \$86,753 |
| Agency ID or Contract Number | |
| Start and End Dates | 1 Sep 16 to 30 Nov 17 |
| Brief Description of Research Project | <p>Construction specifications typically require contractors to seed slopes and provide means for the growing vegetation to stabilize the ground, through the use of blankets, mats, grids or similar devices. The challenge in Alaska and similar remote regions is that such solutions often work well only in the short term. After a year or two, the vegetation dies due to a combination of extreme climate and lack of periodic upkeep and is thus ineffective in preventing erosion. This long-term lack of sustainability leads to environmental damage to the slopes and any water bodies and other areas into which the silt-laden erosion flows.</p> <p>The objectives of this project are two-fold. First, we intend to identify, and develop anew if so indicated, physical methods, products, and procedures that are practical and can be used to improve long-term erosion control of disturbed slopes resulting from construction operations in remote cold climates. Second, the project will develop suggested contractual means, including specification language, by which a public agency, such as a state department of transportation, can assure long-term upkeep of such slopes.</p> |
| Describe Implementation of Research Outcomes (or why not implemented) | |
| Place Any Photos Here | |
| Impacts/Benefit of Implementation (actual, not anticipated) | |
| Web Links | <ul style="list-style-type: none"> • Reports • Project website |

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