UAF Sustainability Research

UAF Sustainability Research Definition
Developed by the UAF Sustainability Research Definition Committee appointed by Chancellor Brian Rogers in the fall of 2010. The committee consisted of Richard Wies, Craig Gerlach, Terry Chapin, Michael Koskey and William Schnabel. Chancellor Rogers approved this definition, on March 30, 2011.

This definition will be used for the purpose of participating in Sustainability Tracking, Assessment and Rating System (STARS). It is a transparent, self-reporting framework for colleges and universities to gauge relative progress towards sustainability. It fulfills the STARS Reporting ER Credit 15 (see credit detailed on page 5 of this document).

As outlined in the STARS technical report, Universities are rated on having a Sustainability Research Committee (of at least 3 faculty members who conduct research) to develop an official definition of Sustainability Research. This definition will be used as a guide for inventorying, reporting and engaging faculty in interdisciplinary sustainability activities. The STARS technical manual outlined that the definition does not need to be formally adopted across campus.

UAF Sustainability Research Definition
Sustainability research at University of Alaska, Fairbanks addresses the integration of cultural, economic, environmental, and energy components and supports projects and perspectives that have positive impacts on future resources, ecosystem health, and human wellbeing.

Sustainability Research Themes
• Climate change and Adaption
• Culture Sustainability
• Ecosystems and Natural Resources Management
• Energy Efficiency and Renewable and Alternative Energy
• Food Security and Agriculture systems
• Water Quality and Supply

A more detailed descriptions and examples of research projects for each theme can be found at:
http://www.uaf.edu/sustainability/research/

Determining Departments and Faculty Involved in Sustainability Research

The STARS team contacted the Statewide Institutional Research and Planning department. This department was able to generate a list of research grants from all UAF researchers. Based on the keywords developed by the STARS team during the curriculum portion, the list of grants was searched and those grants which matched
the keywords were pulled out. These keywords are used to identify sustainability focused or related research projects.

This list was then cross referenced with the faculty and departments in order to determine the total number of faculty and departments involved with sustainability research.

Keywords used were: non-profit; Native; Alaska; resilience; ethics; natural; ecology; ecological; sustainability; sustainable; environmental; environment; global; international; equity; energy; fish; fisheries; human; resource; food; watershed; cultural; culture; subsistence; atmospheric; climate; urban; electricity; earth; justice; coal; petroleum; socioeconomic; conservation.

Departments Involved in Sustainability Research:
70 of 97 UAF departments are involved in sustainability research. Listing follows of departments that are involved.

Museum
Cooperative Extension Programs
CEM Mineral Industry Resch Lab
KUAC
GI Space Physics
IAB AK Coop Fish/Wildlife Rsch Unit
IC Transfer
Library
GI Maintenance
CEM Petroleum Development Lab
GI MISC
UAF CTC Voc Tech
ARSC Core Support
SFOS IMS Faculty and PI's
CEM INE General Research
CEM INE ACEP AK Ctr of Energy Power
SFOS Rasmuson Charting New Crs
CNSM Dean
GI Atmospheric Science
UAF FS Design & Construction
School of Management Dean
University Press
GI Tectonics & Sedimentation
DPP Central EPSCoR Program
NW Transfer
School of Education Academic
CLA CXCS Ctr Cross-Cultural Studies
CEM INE Trans Res Center
OIT Technology Oversight Services
Faculty Involved in Sustainability Research:
263 of 460 UAF faculty are involved with sustainability research. Listing below.

*Last Name First Name Department*
Adkison, Milo School of Fisheries and Ocean Sciences (SFOS)
Aguilar-Islas, Ana Institute of Marine Science (IMS)
Allee, Brian Sea Grant
Allen James Psychology
Anderson Jodie School of Natural Resources and Agricultural Sciences (SNRAS)
Anderson Clara Interior Aleutians Campus
Andrews Russel IMS
Arendt Anthony Snow, Ice and Permafrost, Geophysical Institute
Armbruster William Institute of Arctic Biology (IAB)
Atkinson David International Arctic Research Center
Atkinson Shannon Fisheries Division of SFOS
Atwood Donald GI Remote Sensing
Balaban Murat SFOS
Barber Valerie SNRAS
Barboza Peregrine IAB
Barnes David IAB
Barnhardt Raymond Alaska Native Knowledge Network
Berry Bertram Kathryn Geophysical Institute (GI)
Bhatt Uma Atmospheric Science GI
Bigelow Nancy Natural Science and Mathematics
Blake John DLEVEL
Blanchard Arny IMS
Boone Richard IAB
Boyer Bert IAB
Braddock Joan IAB
Bret-Harte Marion IAB
Brown Neal GI
Burden Alexander IMS
Burke Bridget Library
Carothers Courtney SFOS
Castellini Michael SFOS
Caulfield Richard Academic Affairs
Chambers Izetta Marine Advisory Program (MAP)
Chapin III Terry IAB
Cherry Jessica International Arctic Research Center
Christensen Douglas Geology and Geophysics
Christie David Alaska Sea Grant College Program
Chukwu Godwin PETE
Clausen Thomas CNSM
Collins Richard CNSM
Conde Mark CNSM
Conner Laura CNSM
Connor Billy INE
Coyle Kenneth IMS/SFOS
Crapo Charles FITC/MAP/SFOS
Criddle Keith JC/SFOS
Cullenberg Paula SFOS
Dehn Larissa-Ariane IMS/SFOS
Dierenfield Candi CES
Druckenmiller Patrick CNSM
Duffy Lawrence CNSM
Eckert Ginny JC/SFOS
Eicken Hajo CNSM
Finney Bruce SFOS
Finstad Gregory SNRAS/AFES
Fix Peter SNRAS/AFES
Follmann Erich CNSM
Fong Quentin FITC/MAP/SFOS
Foote Victoria CDE
Fresco Nancy AFES
Freymueller Jeffrey CNSM
Geier Hans SNRAS/AFES/CES
Geml Jozsef CNSM
Gens Rudiger GI/ASF
Gharrett Anthony JC/SFOS
Gibson Georgina ARSC
Gorman Robert CES
Gradinger Rolf IMS/SFOS
Griffith Dennis IAB
Grosse Guido GI
Groves Pamela CRS/IAB
Haldorson Lewis SFOS
Hanks Catherine CEM/GI
Hansen Roger GI
Hardy Sarah SFOS
Haugen Linda NWC/CRCD
Hay Brian CNSM
Hazirbaba Kenan CEM
Heaton John CLA
Hebert Michele CES
Hedstrom Katherine ARSC
Heinrichs Thomas GINA
Heiser Patricia SNRAS
Henrichs Susan PROV
Herrmann Mark SOM
Hillgruber Nicola JC/SFOS
Hills Susan INBRE
Hinzman Larry IARC
Hock Regine CNSM
Holdmann Gwen INE/ACEP
Hollingsworth Teresa CNSM
Hollmen Tuula IMS/SFOS
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Margraf Joseph    SFOS
Matheus Paul      IAB
Mathis Jeremy     IMS/SFOS
McBeath Jenifer   SNRAS/AFES
McCarthy Paul     CNSM
McCracken Kevin   CNSM
McGuire Anthony   IAB
McLean Deborah    BBC/CRCD
McNutt Stephen    GI
Mellish Jo-Ann    IMS/SFOS
Metz Paul         CEM
Metzger Andrew    CEM
Mohatt Gerald     IAB
Morris Kim        GI
Motyka Roman      GI
Mueter Franz      SFOS
Mulder Christa    CNSM
Murray Maribeth   CLA
Naidu Satyanarayan IMS
Nance Kara        CNSM
Nelson Richard    CLA
Newberry Rainer   CNSM
Newman David      CNSM
Nielsen Hans      GI
Nolan Matthew     WERC/INE
Norcross Brenda   IMS/SFOS
O’Brien Kristin   CNSM
O’Brien Diane     CNSM
Odess Daniel      MUSEUM
O’Hara Todd       CNSM
Okkonen Stephen   SFOS
Olson Matthew     CNSM
Osterkamp Thomas  GI
Panteleev Gleb    IARC
Parker Carolyn    MUSEUM
Perkins Robert    CEM
Peterson Rorik    CEM
Pettit Erin       ESTES/CNSM
Ping Chien-Lu     SNRAS/AFES
Polasek Lori      IMS/SFOS
Polyakov Igor     IARC
Poole John        UADV
Potter Ben        CLA
Powell Abby       AKCFWRU/CNSM/IAB
Powers Catherine  KUC/CRCD
Prakash Anupma    CNSM
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Trainor Thomas CNSM
Truffer Martin GI
Turetsky Meritt IAB
Van Hemert Caroline IAB
Verbyla David SNRAS/AFES
Wagner Diane CNSM
Walker Gregory GI
Walker Donald CNSM
Wallace Wesley CNSM
Walsh John IARC; CGC/CIFAR
Walter Anthony Katey CEM
Weingartner Thomas IMS/SFOS
Wendler Gerd GI
Wheat Charles WCPR/SFOS; GURU/SFOS
White Daniel INE/CEM
Whittle Terry SFOS
Whitney James MUSEUM
Wiesenburg Denis SFOS
Winsor Peter IMS/SFOS
Wipfli Mark SFOS
Wooler Matthew IMS/SFOS
Wynne Kathleen MAP/SFOS
Yang Daqing WERC/INE
Yoshikawa Kenji WERC/INE
Zhang Mingchu SNRAS/AFES
Zhang Xiong Department of Civil & Environmental Engineering

Sources used to identify faculty departments:
2010-2011 Faculty and Emeriti Listing
http://www.uaf.edu/catalog/current/faculty_staff/a_fac_staff.html

UAF Advanced People Search Database
http://people.alaska.edu/cgi-bin/people.pl/