

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 documents).

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

VC University Advancement
Center for Global Change
RC Executive Dean
SFOS FITC
Geophysical Institute
GI Volcanology
Institutional Support Sponsored Programs
DPP INBRE Program
CLA Public Service
AFES
SFOS Sea Grant
Summer Sessions & Lifelong Learning
CLA Alaska Native Studies
GI Research
Chancellor Office Operation
SFOS Deans Office
Center for Research Services
CLA Dean
CNSM Eng Sci Techn Experiment Sta
GI Seismology
GI Remote Sensing
ARSC Science Support
CEM INE Water Research Center
UAF IARC General
CEM INE AUTC AK Univ Transp Center
SFOS MAP
CLA Northern Studies
BB Director
CLA Anthropology
RC Health Programs
IAB
SFOS Dean Managed Activites
GI Snow & Ice & Permafrost
SFOS Fisheries Division
SFOS Global Undersea Research Unit
VCR GINA Geog Info Network of AK
BB Transfer
SFOS AK Sealife Center
CLA AK Native Language Center
KU Library
CLA History

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 Army	IMS
Boone Richard	IAB
Boyer Bert	IAB
Braddock Joan	IAB
Bret-Harte Marion	IAB
Brown Neal	GI
Burdin 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

Holton Gary	CLA
Hopcroft Russell	IMS/SFOS
Hutchings Jennifer	IARC
Ickert Stefanie	MUSEUM/CNSM
Iken Katrin	IMS/SFOS
Jahns Thomas	CES
Jewett Stephen	IMS/SFOS
Jin Meibing	IARC
Johnson Jerome	INE
Johnson Mark	IMS/SFOS
Johnstone Jill	CNSM
Jones Jr Jeremy	CNSM
Joseph Bernice	CRCD
Kan Joseph	GI
Kane Douglas	INE
Kaplan Lawrence	CLA
Karlsson Meriam	SNRAS/AFES
Keller John	CNSM
Kelley John	SFOS
Kielland Knut	CNSM
Kim Yong Won	IARC
Kofinas Gary	SNRAS
Kowalik Zygmunt	IMS/SFOS
Krauss Michael	CLA
Krebs Jocelyn	INBRE
Kruse Gordon	SFOS
Lando Barbara	Mathematics + Computer Sciences
Larsen Jessica	GI
Larsen Christopher	GI
Laursen Gary	CNSM
Layer Paul	CNSM
Lee Ming	CEM
Lee Margaret	CLA
Leigh Mary	CNSM
Leonard Beth	SOE
Lewis Carol	SNRAS
Lewis Jordan	IAB
Liang Jingjing	SNRAS/AFES
Lin Chuen-Sen	CEM
Lindberg Mark	CNSM
Liu Juanyu	CEM
Lopez Juan	SFOS
Lovecraft Amy	CLA
Luick Bret	CES
Machida Richard	OIT
Mandel Robert	PROV

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

Quinn II Terrance	JC/SFOS
Radenbaugh Todd	BBC/CRCO
Rader Heidi	CES
Ralonde Raymond	SFOS
Rasic Jeffrey	MUSEUM
Ringstad Ann	University Advancement
Romanovsky Vladimir	GI
Roof Brina	
Rosenberger Amanda	SFOS
Ruess Roger	CNSM
Runstadler Jonathan	CNSM
Rupp Scott	SNRAS
Ruppert James	CLA
Sassen Kenneth	GI
Schedler Kathleen	FS/VCAS
Schmidt Jennifer	IAB
Schnabel William	CEM
Schweitzer Peter	EPSCoR/Northern Studies
Scott Judson	Agricultural and Forestry Experiment Station
Seifert Richard	CES
Seitz Andrew	SFOS
Semiletov Igor	IARC
Sfraga Mike	GEOG
Shallcross Leslie	CES
Sharpton Virgil	GI
Shaw Glenn	GI
Shefchik Robert	CHAN
Short Margaret	CNSM
Shur Yuri	CEM
Sikes Derek	MUSEUM; CNSM
Simmons Harper	IMS/SFOS
Simpson William	CNSM
Smiley Scott	FITC/SFOS
Sorensen Fred	CES
Soria Juan	SNRAS
Springer Alan	IMS/SFOS
Stephens Sidney	SNRAS/AFES
Stockwell Dean	IMS/SFOS
Stone David	CNSM
Straley Janice	CLA
Szuberla Curt	CNSM
Takebayashi Naoki	CNSM
Thorsen Denise	CEM
Tidwell Amy	CEM
Todd Susan	SNRAS/AFES
Toniolo Horacio	CEM

Tordoff Dirk	Library
Trainor Sarah	INE
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
Whitledge Terry	SFOS
Whitney James	MUSEUM
Wiesenburg Denis	SFOS
Winsor Peter	IMS/SFOS
Wipfli Mark	SFOS
Wooller 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/>