Sierra Nevada Research Institute
Annual Report
FY 2016/17

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Sierra Nevada Research Institute

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Memorandum

Date: September 12, 2017

To: Sam Traina, Vice Chancellor for Research and Business Development

From: Roger Bales, Director, Sierra Nevada Research Institute

September 13, 2017

With this letter we submit the Sierra Nevada Research Institute ORU Annual Report for 2016/17. This report follows the outline which was provided by your office. Most of the data and the information in this report were provided by SNRI members and staff, UC Merced's business information office, the CAYUSE system and Development and Alumni Relations.

The SNRI is the oldest ORU at UC Merced and as it was envisioned, this research unit brings together faculty and researchers to discover new knowledge in this region of California – from the crest of the Sierra Nevada, through the San Joaquin Valley to the central coast ranges of California.

The timely creation of this University and the Sierra Nevada Research Institute places this research community at the heart of a range of critical issues facing Californians. Challenges around water, energy, agriculture, wildfire, climate change and impacts on human health all represent the research focus of SNRI researchers and scientists. Grant support for these areas of research continues to flow into this ORU. This year we have increased the support for faculty in the grant process and it is already showing important results.

The heightened public awareness created by nearly five years of drought and a year of the highest precipitation on record has placed an information demand on the SNRI researchers from all sectors: leaders in government, news agencies, business and citizens.

We completed a five-year review of the SNRI ORU this year and we are working with our Advisory Committee to more actively engage our members in making the Sierra Nevada Research an even more robust ORU.

There are currently 38 faculty members in SNRI and 32 professional researchers engaged in SNRI related research at UC Merced and they are operating with more than 22 million dollars in grant support.

Sierra Nevada Research Institute

University of California, Merced

Organized Research Unit (ORU) Annual Report 2016/17

1.) Brief summary of major activities during the past year, including a discussion of how the prior year's goals have been met.

The 2016/17 academic year represents another significant year for the Sierra Nevada Research Institute. The mission of the SNRI is *to develop new knowledge that will sustain the natural resources and promote social well-being in the Sierra Nevada and Central Valley region* continues to be critical for California and the West.

Research carried out by SNRI members and their research groups provide knowledge that contributes to the sustainability of the region, state and global community. Research programs include renewable energy, decarbonizing the economy, more-sustainable ecosystem management and other climate solutions. The recent drought and now record rain year has highlighted the need for sustainable water management, the focus of UC Water and many other SNRI projects. Research in our Center for Climate Communications, in UC Solar and under many individual efforts have also contributed to this goal. SNRI faculty continue to contribute to the sustainability of UC Merced and the UC as a whole, and they are doing research that contributes to the UC goal of carbon neutrality by 2025."

The first 5-Year review of the SNRI was completed this year and the response is being prepared this Fall. Faculty, students and the staff of SNRI participated in the onsite interviews by the review committee.

SNRI researchers are regularly sought out for their research and insights by news organizations, legislators, State agencies, agricultural leaders, environmental organizations and NGO's.

This year, SNRI researchers published in numerous scientific journals (248 papers) and were in the news more than fifty times in print, radio, online, and television media. Outlets included the New York Times, Desert Sun, USA Today, National Public Radio, New Scientist, book chapters, the Sacramento Bee, Merced Sun Star, Forbes, California television stations, The Economist, The London Times, Scientific American and more. Topics covered the full range of SNRI faculty research, including: Op-ed pieces on sustainability and water information systems, articles and interviews on; climate and wildfire, mercury research in water systems around the world, drone technology, climate impacts on fog in coastal forests, Valley Fever research, graduate fellowship gifts, climate news accuracy, an early career award for a faculty member and more.

Earlier this year, SNRI secured NSF funding for a documentary film, "Beyond the Brink" that focuses on the critical water/food/energy nexus in the San Joaquin Valley. This

movie features UC Merced researchers and will be released this Fall with a premiere hosted by the SNRI in downtown Merced.

In this fiscal year, SNRI and UC Water launched a new UCTV channel, "Sustainable California" which features videos about UC Merced and UC research. The team is working to develop additional content with researchers and is expected to reach a widening audience in the coming years.

During the 2017 UC Merced Research Week, SNRI delivered a well attended symposium featuring the work of four SNRI affiliated faculty. (attachment H)

There are currently 36 faculty members in SNRI and 32 professional researchers engaged in SNRI related research at UC Merced.

2.) Names of persons serving on the unit's Advisory Committee.

Internal: Asmeret Asefaw Berhe (Committee Chair), Josh Viers, Michael Dawson, YangQuan Chen, Jan Goggans

External: Koren Nydick, Resources Manager, Sequoia/Kings Canyon National Parks

3.) Dates of Committee meetings :

May 16, 2017 (Committee was appointed in Spring 2016)

4.) Summary of key Advisory Committee recommendations.

- Discussed 5-year review and actions to be taken by VC Research and SNRI Director
- Will reconstitute the Directors Council in 17/18
- Develop a seminar series with SNRI Faculty for 17/18
- Create more of a community for SNRI members and partners
- SNRI Director welcomes additional engagement by SRNI Advisory Committee
- Coordinating Film Premiere for this Fall," Beyond the Brink"
- UCTV Sustainable California channel launched
- SNRI Staff working on SNRI Welcome Event for this Fall
- Revisit criteria used by SNRI Membership committee and reconfirm current members
- Jan Goggans would like to see SNRI and SSHA calendars coordinated and possibly co-sponsor events and activities.
- SEKI is working on expanding the Field Station program with UC Merced

5.) Copy of Advisory Committee report(s), minutes, or other relevant documentation.

- **See attachment A: (page 13)**

6.) Names of faculty members actively engaged in the unit's research and their supervision of staff and students.

Faculty

Ardell, David	Diaz, Gerardo	Matlock, Teenie
Bales, Roger	Frank, Carolin	Moran, Emily
Beman, Michael	Ghezzehei, Teamrat A.	Nobile, Clarissa
Berhe, Asmeret Asefaw	Guo, Qinghua	O'Day, Peggy
Beutel, Marc	Harmon, Tom	Rice, Robert
Blois, Jessica	Hart, Stephen	Rolland, Erik
Campbell, Elliott	Hull, Kathleen	Rogge, Wolfgang
Chen, Yang Quan	Innes, Robert	Sexton, Jason
Chen, Yihsu	Jenkins, Jeff	Traina, Samuel
Conklin, Martha	Joyce, Andrea	Westerling, Le Roy
Dawson, Michael	Lercari, Nicola	Winston, Roland
Edwards, Daniel	Leppert, Valerie	Viers, Joshua

Supervision of students:

7.) Names of undergraduate and graduate students and postdoctoral scholars directly contributing to the unit who are on the unit's payroll:

Employee Full Name	Title Long Description
ARONSTEIN,PAUL JOSHUA	GRADUATE STUDENT RESEARCHER - NO REMISSION
FRYJOFF-HUNG,ANNA FRANCISK	GRADUATE STUDENT
HEEREN,ALEXANDER JOHN	POSTDOCTORAL SCHOLAR-EMPLOYEE
KEYSER,ALISA RENAE	POSTDOCTORAL SCHOLAR-EMPLOYEE
KLOS,PETER ZION	POSTDOCTORAL SCHOLAR-EMPLOYEE
NWOSU,UGWUMSINACHI G	POSTDOCTORAL SCHOLAR-EMPLOYEE
PATTAMMATTEL,AJITH MADHUSO	POSTDOCTORAL SCHOLAR-EMPLOYEE
SOHRABI,MOHAMMADMEHDI	POSTDOCTORAL SCHOLAR-EMPLOYEE
SOLTAU,SUSAN MARIE	GRADUATE STUDENT RESEARCHER - NO REMISSION
VILLA,YOCELYN BRICEYDA	GRADUATE STUDENT RESEARCHER - NO REMISSION
WHELAN,MARY ELIZABETH	POSTDOCTORAL SCHOLAR-EMPLOYEE
YAN,JING	POSTDOCTORAL SCHOLAR-EMPLOYEE
Total ACADEMIC undergrad, grad and post doc Employees: 12	

Employee Full Name	Title Long Description
AYALA ASTORGA,MARIA DEL RE	LABORATORY ASSISTANT I
SERNA,BLAZ M	LABORATORY ASSISTANT I
TAYLOR,ROBERT JAMES	LABORATORY ASSISTANT I
Total LIMITED Employees: 3	

Employee Full Name	Title Long Description
CASAS,ANDRES	STUDENT 1
CASTRO,MADELINE KAYE	STUDENT 2
COONEY,MORGAN SPENCER	STUDENT 3
ELIAS,OSCAR ANTONIO	STUDENT 1
FRISE,ANDRE CRAIG	STUDENT 2
GLASSER,SUSAN MARLEY	STUDENT 1
KALUA,MICHAEL DAVID	STUDENT 3
LUCEY,FLORENCE HELLEN	STUDENT 1
MURILLO,ALLAN ROMAN	STUDENT 4
OJEDA,NANCY VERONICA	STUDENT 1
PEREZ,ARACELI	STUDENT 1
QUARNSTROM,SEAN MICHAEL	STUDENT 3
SAM,JONATHAN AARON	STUDENT 3
TORRES,RYAN JACOB	STUDENT 1
TRISNADI,TIMOTHY TITUS	STUDENT 1
Total CASUAL/RESTRICTED Employees: 15	

Names of undergraduate and graduate students and postdoctoral scholars directly contributing to the ORU's scholarly work through assistantships, fellowships, or traineeships:

Research Scientists
Burkhart, John
Hilton, Tim
Hunsaker, Carolyn
Kueppers, Lara
Miller, Norman
Pathak, Tapan
Quinn, Nigel
Rice, Robert
Safeeq, Mohammad
Vincent, Emmanuel

Postdoctoral Scholars
Carper, Dana
Hays, Cynthia
Keyser, Alisa
Kupihea, James
Whelan, Mary
Yan, Jing

Staff Researchers
Meng, Xiande
Milostan, Jeanne
Stacy, Erin

Students
Araya, Samuel
Ayala, Astorga
Booth, Lorenzo Ade
Busset , Nicholas Garrett
MacNeill, Curtis
Rungee, Joseph
Stinecipher, James
Taylor, Robert
Torres, Ryan Jacob
Casas , Andres
Castro, Madeline Kaye
Cooney, Morgan Spencer

Students
Elias, Oscar Antonio
Frise, Andre Craig
Glasser, Susan Marley
Kalua,Michael David
Lucey, Florence Hellen
Murillio, Allan Roman
Ojeda, Nancy Veronica
Perez, Aracelli
Quarnstrom, Sean Michael
Sam, Jonathon Aaron
Torres, Ryan Jacob
Trisnadi, Timothy Titus

8.) Extent of student and faculty participation from other academic institutions.

Note: Not all faculty provided information for this section

Professor	**Student/Faculty**	**Institution**
Bales, Roger	Graham Fogg	UC Water/Davis
	Andy Fisher	UC Water/Santa Cruz
	Michael Kiparsky	UCWater/Berkeley
	Hellen E. Dalhke	UC Water/Davis
	Holly Doremus	UC Water/Berkeley
	Steven D. Glaser	UC Water/CZO/Berkeley
	Thomas Harter	UC Water/Davis
	Jay Lund	UC Water/Davis
Professor	**Student/Faculty**	**Institution**

Bales,Roger	Josué Medellín-Azuara	UC Water/Davis
	Samuel Solis	UC Water/Davis
	Kevin O'Hara	UC Berkeley
	William Stewart	UC Berkeley
	Carlos Oroza	UC Berkeley
	Ziran Zhag	UC Berkeley
	Zeshi Zheng	UC Berkeley
	Hunsaker, Carolyn	CZO/USFS
	Anthony O'Geen	CZO/UC Davis
	Peter Hartsough	CZO/UC Davis
	Naomi Tague	CZO/UC Santa Barbara
	Cliff Reibe	CZO/U Wyoming
Beman, Michael	Michael Golden	CZO/UC Irvine
	SNAMP Collaborators	*(See Conklin)*
Berhe, Asmeret	CZO Collaborator	*(See Bales)*
Blois, Jessica	Behrensmeyer, Kay	Smithsonian Institution
	Eronen, Jussi	University of Helsinki
Blois, Jessica	Ferrier, Simon	CSIRO (Australia)
	Fitzpatrick, Matt	University of Maryland Center for Environmental Science
	Gill, Jacquelyn	University of Maine
	Gotelli, Nick	University of Vermont
	Graham, Russ	Penn State
	Grimm, Eric	Illinois State Museum
	Jackson, Steve	USGS Southwest Climate Science Center
	Lawing, A. Michelle	Texas A&M
	Lugilde, Diego Nieto	University of Maryland Center for Environmental Science
	Lyons, S. Kate	Smithsonian
	McGill, Brian	University of Maine
	McGuire, Jenny	Georgia Tech
	Mychajliw, Alexis	Stanford University
	Polly, P. David	Indiana University
	Williams, Jack	UW Madison
Campbell, Elliott	Not available	
Chen, Yihsu	Not available	
Chen, YangQuan	Not available	
Conklin, Martha	UCWater collaborators	*(See Bales)*
	CZO collaborators	*(See Bales)*
	John Battles	*UC Berkeley/SNAMP*

Professor	**Student/Faculty**	**Institution**
Conklin, Martha	Maggie Kelly	*UC Berkeley/SNAMP*
	Steve Stephens	*UC Berkeley/SNAMP*

	Lynn Huntsinger	*UC Berkeley/SNAMP*
Dawson, Michael	Bob Wayne	*UCLA*
	Rasmus Nielsen	UCB
	Beth Shapiro	UCSC
	Jeff Wall	UCSF
Diaz, Gerardo	Not available	
Fogel, Marilyn	Alexander, Conel	Carnegie Institution of Washington
	Miller, Gifford	University of Colorado
	Misc.	Stroud Water Research Institute
	Steele, Andrew	Carnegie Institution of Washington
Frank, Carolin	Albalasmeh, Ammar	Jordan University of Science and Technology
Ghezzehei, Teamrat	Bayala, Roger	Institut Senegalais Pour la Recherche Agricole
	Berli, Markus	Desert Research Institute, Nevada
	Carminati, Andrea	University of Gottingen
	Dijkema, Jelle	Wageningen University and Desert Research Institute
	Furman, Alex	Technion Institute, Israel
	Moret, David	Consejo Superior de Iinvestigaciones Cientificas
	Sancho, Carolina Pena	Consejo Superior de Iinvestigaciones Cientificas
	Van Der Ploeg, Marine	Wageningen University
	Van Genuchten, Rien	Federal University of Sao Paolo
Guo , Qinghua	SNAMP	(*See Conklin)*
Harmon, Tom	Allen, Michael	University of California Riverside
	Ayllon, Roxanna	Universidad Austral de Chile
	Chandra, Sudeep	University of Nevada Reno
	Conde, Daniel	Universidad de la República, Uruguay
	Escobar, Jaime	Universidad del Norte, Colombia
	Hanson, Paul	University of Wisconsin
	Helman, Michal	University of Montana
	Hoyos, Natalia	Universidad del Norte, Colombia
	Jones, Stuart	University of Notre Dame
	Longo, Maria Clara	Universidad Nacional del Sur, Argentina
	Oberbauer, Steve	Florida International University
	Perillo, Gerardo	Instituto Argentino de Oceanografía & UniversidadNacional del Sur, Argentina
	Picollo, M. Cintia	Instituto Argentino de Oceanografía & Universidad Nacional del Sur, Argentina
	Pinto, Adrian	University of Costa Rica
Professor	**Student/Faculty**	**Institution**
Harmon, Tom	Reid, Brian	Centro de Investigaciones en Ecosistemas de la Patagonia, Universidad Austral de Chile

	Rundel, Philip	UCLA
	Rusak, James	Queen's University and Ontario Ministry of the Environment
	Schwendenmann, Luitgard	University of Aukland, New Zealand
	Scordo, Facundo	Universidad Nacional del Sur, Argentina
	Scott, Dane	University of Montana
	Silvia, London	Instituto de Investigaciones Económicas y Sociales del Sur
	Velez, Maria	University of Regina, Canada
	Wemple, Beverley	University of Vermont
	Zelikova, Jane	University of Wyoming
	Zilio, Mariana	Instituto de Investigaciones Económicas y Sociales del Sur
Hart, Stephen	Emma Aronson	UC Riverside
	Cliff Riebe	University of Wyoming
	Mengqiang Zhu	University of Wyoming
	Ben Sullivan	University of Nevada Reno
Leppert, Valerie	Henry Forman	Davis School of Gerontology, USC, US
	Dra. Monserrat Bizarro-Sordo	Materials Institute, UNAM, Mexico
Hull, Kathleen	None	
Joyce, Andrea	Not available	
Moran, Emily	Not available	
Matlock, Tennie	none	
O'Day, Peggy	Not available	
Rice, Robert	Butler, Leslie	University of California Davis
	Glaser, Steve	University of California Berkeley
	Horwath, William	University of California Davis
	Zhang, Ziran	UC Berkeley
	Steven Glazier	UC Berkeley

Professor	**Student/Faculty**	**Institution**
Sexton, Jason	Blackman, Ben	University of Virginia
	Carscadden, Kelly	University of Toronto
	Hirst, Megan	University of Melbourne
	Hoffmann, Ary	University of Melbourne

	Slatyer, Rachel	University of Melbourne
Westerling, Anthony	Not available	
Winston, Roland	Constance Chang-	UC Berkeley
	Hasnain	UC Davis
	Pieter Stroeve	UCSB
	Umesh Mishra	UC Riverside
	Alfredo Martinez-	UCLA
	Morales	UC Irvine
	Yang Yang	UCSC
	Matthew Law	UCSB
	Michael Isaacson	UC Davis
	Steve DenBaars	UC Berkeley
	Nael El-Farra	UC San Diego
	Ali Javey	UC San Diego
	Sungho Jin	UCSC
	Zhaowei Liu	UC Davis
	Patrick Mantey	UC Berkeley
	Adam Moule	UCSB
	Sayeff Salahuddin	UC Davis
	James Speck	UC Riverside
	Daniel Sperling	UC Davis
	Sadrul Ula	UC Berkeley
	Jerry Woodall	UC Davis
	Ming Wu	UC Berkeley
	Eli Yablonovitch	UC Berkeley
	Adam Durbin	UC San Diego
	Mark Durbin	UC San Diego
Viers, Joshua	UC Water	
	collaborator	(See Bales)

9.) Numbers and FTE of academic research personnel, technical staff, and administrative personnel who are paid through the unit's accounts.

	All accounts
Academic Research Personnel	27 FTE
Technical Staff	15 FTE
Administrative Personnel	9 FTE

- **See attachment B for a complete listing of these individuals (pages 17-18)**

10.) Efforts to contribute to the campus's diversity goals. Contributions to diversity and equal opportunity can take a variety of forms, including efforts to advance equitable access to education, public service that addresses the needs of California's diverse population, or research in a scholar's area of expertise that highlights inequities.

UC Merced has one of the most diverse student populations in the UC system. In all areas, the SNRI students, grad students and employees–reflect California. The new knowledge being created by the SNRI Faculty, researchers and students create a better understanding of conditions, needs, and solutions that have a direct impact on low-income, rural and diverse populations. *Note the ethnic diversity represented by the names of the UC Merced undergraduate, graduate students and employees listed in section 7 of this report.*

Contributions to the campus' diversity goals come from the efforts of individual faculty, supervisors and campus leadership. Actions in the SNRI include hiring and supporting a diverse workforce, active participation in selecting students for fellowships and scholarships, meetings with students and prospective students and participation in numerous community events. The SNRI has a very diverse staff, and our offices are a healthy and safe workplace for everyone.

11.) List of publications, issued by and acknowledging the unit, including books, journal articles, and reports and reprints, showing author, title, and press run; or other evidence of creative scholarship, such as colloquia, conferences, workshops, performances, and exhibitions. Publications must acknowledge the ORU.

SNRI does not ask faculty, researchers and students to acknowledge SNRI in publications. Some do list an SNRI affiliation, along with a school affiliation within UC Merced. However, SNRI does not explicitly request that members and their research affiliates do this. It is left to the individual to decide what is appropriate for each publication.

- **See Attachment C for complete listing of articles by SNRI members and researchers in the 2014/2015 academic year (Pages 19-)**

12.) Sources and amounts (on an annual basis) of income, including contracts and grants, gifts, University support, service agreements, and income from the sale of publications and from services.

FY 16/17 Grants and Contracts	$ 21,929,366.57
Gifts	$ 13,185.62
State Funding (SNRI Operations)	$ 571, 923.48
FY 16/17 total for SNRI grants/gifts/state funding	$ 22,944,045.78
Total value of current active SNRI Grants (2014-2020)	$ 22,215,137.01

- **See Attachment D for grant funding details (page 45-48).**

- **See Attachment E for FY 16/17 Gift details (Page**
  These are approximate amounts of grants and contracts to SNRI members and researchers. This was compiled from data available from the SNRI MSO, the UC Merced Sponsored Projects Office and the Campus Gift administration Office.

13 new proposals were awarded this fiscal year with a total value of $1,897,110.00
Important note: There are two Research administrators in SNRI and they manage over 50 active grants as well as assisting faculty with pre-award applications

Proposals prepared: 59

Proposals submitted: 49

Proposals funded: 13

- **See Attachment F for FY 16/17 Grant activity**

13.) Expenditures from all sources of support funds, distinguishing use of funds for administrative support, direct research, and other specified uses.

Direct Research	$ 3,547,094.72
Academic Salaries	$ 45,111.00
Career Staff	$ 287,303.19
Student Appointments	$ 5,911.04
General Operations	$ 17,106.55
Travel	$ 7,785.66
Benefits	$ 138,544.16
Other Expenses	$ 9,499.21
Total	$ 4,052,444.49

14.) Description and amount of space currently occupied.

Two administrative office spaces in Science and Engineering Building 1

Science and Engineering Building 1, Room 206 (160 sq ft)

Science and Engineering Building 1, Room 208 (321 sq ft)

Science and Engineering Building 1, Room 236 (160 sq ft)

Conference room - Science and Engineering Building 1, Room 200 (486 sq ft)

Administrative Office Building (Temporary Modular buildings)

AOB 125 Office (109 sq ft)
AOB 144 Office (107 sq ft)
AOB 145 Office (110 sq ft)

Total square footage: 1,453 sq ft

15.) Summary of ORU goals for the coming year.

- Continue the development of SNRI, UC Merced as the world class research university partner for outstanding engagement with research, governance and policy leaders focused on the Sierra and Central Valley regions, and comparative regions world-wide.
- Reconstitute Directors Council
- Develop a Seminar Series for SNRI with Faculty and CITRIS
    - Develop a speakers list (Roger, Asmeret & Armando)
- Coordinate and host "Beyond the Brink" Film Premiere in Merced on September 14, 2017
- Support UCTV Sustainable California Channel – engage faculty and encourage development of short videos describing research and new knowledge for this channel
- Continue to develop a more balanced workload for the ORU administrative support staff

ATTACHMENT: A

SNRI Advisory Committee Notes
May 16, 2017
11:00am – 12:00pm
UCMSSM 230 - Tuolumne Meadows and phone conference

Present: Asmeret Asefaw Berhe (Chair), Josh Viers, Jan Goggans, Yang Quan Chen, Koren Nydick
Roger Bales, Director
Armando Quintero, Executive Director
Absent: Mike Dawson

5 Year Review
Sam is happy with the main response.
Several comments that we need to think about.

- Committee wants more faculty engagement with SNRI programming
- Metrics impact need to be more related to SNRI program and faculty contributions to UC Merced relative to SNRI membership
- Sam and the Senate will respond
- UCM has 6 months to write a response
- Office of Research and budget issues have an impact and this may mean some re-organization and strategic planning.
- Summer conversation – Roger and Armando meet with Paul and Trevor
- How are the faculty engaged beyond being members?
- What is the important need for SNRI?
- Could be the vehicle to bring more people together
- Help recruit undergrad and grad majors?

Discussion by the Advisory committee includes:

- Schedule next SNRI Advisors meeting for a breakfast in October 2017
- Time to Reconstitute the Directors Council
- Develop a Seminar Series for SNRI with Faculty
- Create more of a community for SNRI
- Roger welcomes greater engagement of Advisory Council
- Use funding for seminar speakers and other activities
- Weekly seminar - CITRIS speaker series and EECS, fills a 100 seat room.
- Look at partnering with - bring industry leaders for SNRI - Koren and SEKI, etc.
- Develop a list of potential speakers. Armando work with Roger and Asmeret and reach out to the Committee with recommendations.
- Find out who is organizing the ES seminars?

Coordinate Beyond the Brink Fall Premier showing in Merced with the ES Group Calendar.

- Panel discussions with the Film. Hosted event(s) on campus, at Kamangar Theatre
- Armando - Leigh – Michelle to coordinate

Website development

- SNRI has hired Tim Tisnadi to work with Armando this summer to design and implement new website in coordination with Campus Web Administrators.

UCTV
- Send the link to the SNRI Advisors
- Koren - has videos that are ready made to put on the channel
- Invite Koren to participate in future UCTV conference call

Lab fee proposal - program - Climate Science - big
- Encourage multiple letters of intent to get traction
- Mike Goulden at UC Irvine is interested in this.
- Yang Quan Chen is interested in mapping and sniffing with drones.
- Larger issues here for large grants – The question is always, who will be the PI?
- Roger has experience in doing this. He is available to line up partners and the SNRI Office has more pre-award support.
- Teamrat and Asmeret are submitting
- JC Ross and Prosper Godonoo are two new Research Administrators.
- Get recommendations for a good grant writer – JC Ross' name is brought up in this regard.
- Roger can also recruit people to help on strategic feedback for proposals.

<u>Goals for the Committee</u>

- Revisit with membership committee – do we need to distinguish between active faculty and less active faculty? Do we want to have distinct types of SNRI membership? Membership Committee: Mike Dawson, Wolfgang Rogge and Andrea Joyce: Review ideas with this committee on criteria and discuss what is working and what is not working for membership.

- Staff is working on SNRI Welcome event for the Fall

- Jan Goggans- would love to see SNRI events on SSHA calendar and vice-versa.
  Interested in learning how Shaw faculty can combine Environmental literature efforts with SNRI.
  Explore how SSHA can engage in grants with SNRI
  Jan is publishing an article on the Central Valley - cultural studies
  Anthony - studying west lands water district
  Find out who is doing environmental writing in SSHA

<u>Koren Nydick reports on Sequoia/Kings Canyon</u>
- SEKI research prospectus to be finalized this winter
- SEKI Science symposium in 2018
- Competitive SEKI Mini Grants for 2018
- Had a meeting with the Southern Sierra Science Cooperative - focus is going to do with tree mortality/fire management/ecosystem services
- IRWMP at SEKI
- Kids engagement to become scientists.
- Koren - the hope is to host the field station - effort to update the agreement and Christy Brigham is working on that with UCMerced. Next year park will be working on a broader strategic plan.
- Advisory Committee should weigh in on SEKI work

Final notes for Asmeret and Roger
These meeting notes need to be provided to same as a final report to Sam on SNRI.
Set up clear accepted procedures for ORU 5 year reviews for UC Merced
Should SNRI Field Station Manager, Anne Kelly to be a part of SNRI Advisory Group?

ATTACHMENT: B

SNRI Academic Research Personnel and Administrative Personnel

For Appointment Department: **F100 - SIERRA NEVADA RESEARCH INSTITUTE**

Appointment Type Code: **5** | Appointment Type Description: **ACADEMIC**

Employee Full Name	Title Long Description
ARONSTEIN,PAUL JOSHUA	GRADUATE STUDENT RESEARCHER - NO REMISSION
BALES,ROGER C	DIRECTOR
BARMAN,APURBA KUMAR	ASSISTANT PROJECT -FISCAL YEAR
BERNACCHI,LEIGH ALEXIS	ASSOCIATE SPECIALIST
CAMPBELL,JOHN E	ASSOCIATE RESEARCHER-ACADEMIC YEAR-1/9T
CONKLIN,MARTHA H	ASSOCIATE RESEARCHER-ACADEMIC YEAR-1/9T
FRANK,ANNA CAROLIN	ASSOCIATE RESEARCHER-ACADEMIC YEAR-1/9T
FRYJOFF-HUNG,ANNA FRANCISK	GRADUATE STUDENT
GUO,QINGHUA	RESEARCH -FISCAL YEAR
HART,STEPHEN COERT	RESEARCHER-ACADEMIC YEAR-1/9T
HEEREN,ALEXANDER JOHN	POSTDOCTORAL SCHOLAR-EMPLOYEE
HILTON,TIMOTHY WILLIAM	ASSISTANT PROJECT -FISCAL YEAR
HULL,KATHLEEN L	ASSOCIATE RESEARCHER-ACADEMIC YEAR-1/9T
HUNSAKER,CAROLYN THOMAS	RESEARCH ASSOCIATE (WITHOUT SALARY)
KEYSER,ALISA RENAE	POSTDOCTORAL SCHOLAR-EMPLOYEE
KLOS,PETER ZION	POSTDOCTORAL SCHOLAR-EMPLOYEE
NWOSU,UGWUMSINACHI G	POSTDOCTORAL SCHOLAR-EMPLOYEE
PATTAMMATTEL,AJITH MADHUSO	POSTDOCTORAL SCHOLAR-EMPLOYEE
SAFEEQ,MOHAMMAD	ASSISTANT RESEARCH -FISCAL YEAR-BUSINE
SOHRABI,MOHAMMADMEHDI	POSTDOCTORAL SCHOLAR-EMPLOYEE
SOLTAU,SUSAN MARIE	GRADUATE STUDENT RESEARCHER - NO REMISSION
SU,YANJUN	ASSISTANT PROJECT -FISCAL YEAR
VILLA,YOCELYN BRICEYDA	GRADUATE STUDENT RESEARCHER - NO REMISSION
VINCENT,EMMANUEL MATHIEU J	ASSISTANT PROJECT -FISCAL YEAR
WESTERLING,ANTHONY L.	ASSOCIATE RESEARCHER-ACADEMIC YEAR-1/9T
WHELAN,MARY ELIZABETH	POSTDOCTORAL SCHOLAR-EMPLOYEE
YAN,JING	POSTDOCTORAL SCHOLAR-EMPLOYEE
Total ACADEMIC Employees: 27	

Appointment Type Code: **2** | Appointment Type Description: **REGULAR/CAREER**

Employee Full Name	Title Long Description
GALVAN,CRYSTAL ANN	ADMINISTRATIVE OFFICER 2
GILMORE,MICHELLE ELIZABETH	STAFF RESEARCH ASSOCIATE II
HAGERMAN,MEKENNA VICTORIA	ASSISTANT I
MENG,XIANDE	RESEARCH DATA ANALYST 2
QUINTERO,ARMANDO M	EXECUTIVE ADVISOR 4
STACY,ERIN MICHELE	STAFF RESEARCH ASSOCIATE III
VALLE-AREVALO,ALEXIS IVONN	RESEARCH ADMINISTRATOR 3
VENTURA,CLEOTILDE T	ADMINISTRATIVE SUPERVISOR 2
WOMBLE,PATRICK	STAFF RESEARCH ASSOCIATE III
Total REGULAR/CAREER Employees: 9	

Appointment Type Code: **3** | Appointment Type Description: **LIMITED**

Employee Full Name	Title Long Description
AYALA ASTORGA,MARIA DEL RE	LABORATORY ASSISTANT I
SERNA,BLAZ M	LABORATORY ASSISTANT I
TAYLOR,ROBERT JAMES	LABORATORY ASSISTANT I
Total LIMITED Employees: 3	

Appointment Type Code: **4** | Appointment Type Description: **CASUAL/RESTRICTED**

Employee Full Name	Title Long Description
CASAS,ANDRES	STUDENT 1
CASTRO,MADELINE KAYE	STUDENT 2
COONEY,MORGAN SPENCER	STUDENT 3
ELIAS,OSCAR ANTONIO	STUDENT 1
FRISE,ANDRE CRAIG	STUDENT 2
GLASSER,SUSAN MARLEY	STUDENT 1

KALUA,MICHAEL DAVID	STUDENT 3
LUCEY,FLORENCE HELLEN	STUDENT 1
MURILLO,ALLAN ROMAN	STUDENT 4
OJEDA,NANCY VERONICA	STUDENT 1
PEREZ,ARACELI	STUDENT 1
QUARNSTROM,SEAN MICHAEL	STUDENT 3
SAM,JONATHAN AARON	STUDENT 3
TORRES,RYAN JACOB	STUDENT 1
TRISNADI,TIMOTHY TITUS	STUDENT 1
Total CASUAL/RESTRICTED Employees: 15	

Attachment C

Publications – Books, Journal Articles, Reports

Faculty Member	Publications 16/17 Year
Ardell, David	Ardell, David H., and Ya-Ming Hou. "Initiator TRNA Genes Template the 3' CCA End at High Frequencies in Bacteria." *BMC Genomics*. BioMed Central, 08 Dec. 2016. Web. 05 July 2017.
Bales, Roger	Harrison, Brent, and Roger Bales. "Comparison of Skill Assessments of Water Supply Forecasts for the Western Sierra Nevada and the Colorado River Basin." *Comparison of Skill Assessments of Water Supply Forecasts for the Western Sierra Nevada and* (2016): 90.
Bales, Roger	Harrison, Brent, and Roger Bales. "Skill assessment of water supply outlooks in the Colorado River basin." *Hydrology* 2.3 (2015): 112-131.
Bales, Roger	Bales, RC; & Harrison, B. (2016). Comparison of Skill Assessments of Water Supply Forecasts for the Western Sierra Nevada and the Colorado River Basin. UC Merced: oa_harvester:1591111.
Bales, Roger	Oroza, C. A., Zheng, Z., Glaser, S. D., Tuia, D., & Bales, R. C. (2016). Optimizing embedded sensor network design for catchment-scale snow-depth estimation using LiDAR and machine learning. *Water Resources Research*, *52*(10), 8174-8189.
Bales, Roger	Bales, RC; Conklin, M; Saksa, P; Martin, S; & Ray, R. (2016). Appendix E: Water Team Final Report. UC Merced: oa_harvester:1591096.
Bales, Roger	Bales, RC; White, T; Brantley, S; Banwart, S; Chorover, J; Dietrich, W; et al.(2016). The Role of Critical Zone Observatories in Critical Zone Science. UC Merced: oa_harvester:1591102.
Bales, Roger	Bales, RC; & Harrison, B. (2016). Comparison of Skill Assessments of Water Supply Forecasts for the Western Sierra Nevada and the Colorado River Basin. UC Merced: oa_harvester:1591111.
Bales, Roger	Bales, RC; & Harrison, B. (2016). Percent bias assessment of water supply outlooks in the Colorado River basin. UC Merced: oa_harvester:1591107.
Bales, Roger	Rheinheimer, D. E., R. C. Bales, C. A. Oroza, J. R. Lund, and J. H. Viers (2016), Valuing year-to-go hydrologic forecast improvements for a peaking hydropower system in the Sierra Nevada, Water Resour. Res., 52, 3815–3828, doi:10.1002/2015WR018295.

Bales, Roger	Oroza, C. A., Z. Zheng, S. D. Glaser, and D. Tuia (2016), Optimizing embedded sensor network design for catchment-scale snow-depth estimation using LiDAR and machine learning, Water Resour. Res., 52, 8174–8189, doi:10.1002/2016WR018896.
Bales, Roger	Sylvia Szabo, Robert J. Nicholls, Barbara Neumann, Fabrice G. Renaud, Zoe Matthews, Zita Sebesvari, Amir AghaKouchak, Roger Bales, Corrine Warren Ruktanonchai, Julia Kloos, Efi Foufoula-Georgiou, Philippus Wester, Mark New, Jakob Rhyner & Craig Hutton (2016) Making SDGs Work for Climate Change Hotspots, Environment: Science and Policy for Sustainable Development, 58:6, 24-33, DOI: 10.1080/00139157.2016.1209016
Bales, Roger	Topographic and vegetation effects on snow accumulation in the southern Sierra Nevada: a statistical summary from lidar data Z Zheng, PB Kirchner, RC Bales The Cryosphere 10 (1), 257-269 2016
Bales, Roger	Zhang, Z., S. D. Glaser, R. C. Bales, M. Conklin, R. Rice, and D. G. Marks (2017), Technical report: The design and evaluation of a basin-scale wireless sensor network for mountain hydrology, Water Resour. Res., 53, doi:10.1002/2016WR019619.
Beman, Michael	Graham, Emily B. et al. "Microbes as Engines of Ecosystem Function: When Does Community Structure Enhance Predictions of Ecosystem Processes?" *Frontiers in Microbiology* 7 (2016): 214. *PMC*. Web. 24 May 2017.
Beman, Michael	Orissa M Moulton, Mark A Altabet, J Michael Beman, Linda A Deegan, Javier Lloret, Meaghan K Lyons, James A Nelson, and Catherine A Pfister (2016). Microbial Associations with Macrobiota in Coastal Ecosystems: Patterns and Implications for Nitrogen Cycling
Beman, Michael	Chelsea J. Carey, Nicholas C. Dove, J. Michael Beman, Stephen C. Hart, Emma L. Aronson (2016). Meta-analysis reveals ammonia-oxidizing bacteria respond more strongly to nitrogen addition than ammonia-oxidizing archaea.
Beman, Michael	Meyerhof, M. S., Wilson, J. M., Dawson, M. N. and Michael Beman, J. (2016), Microbial community diversity, structure and assembly across oxygen gradients in meromictic marine lakes, Palau. Environ Microbiol, 18: 4907–4919. doi:10.1111/1462-2920.13416
Berhe, Asmeret	Jesse Wilson, Sarah Abboud, J Michael Beman (2017) Primary Production, Community Respiration, and Net Community Production along Oxygen and Nutrient Gradients: Environmental Controls and Biogeochemical Feedbacks within and across "Marine Lakes"

Berhe, Asmeret	Yaxian Hu, A. A. Berhe, M. L. Fogel, G. J. Heckrath, N. J. Kuhn (2016) Transport-distance specific SOC distribution: Does it skew erosion induced C fluxes?
Berhe, Asmeret	S.N. Araya, S.M. Meding, Asmeret Asefaw Berhe (2016) Thermal alteration of soil physico-chemical properties: a systematic study to infer response of Sierra Nevada climosequence soils to forest fires.
Berhe, Asmeret	Santos, F., D. Russell, and A. A. Berhe (2016), Thermal alteration of water extractable organic matter in climosequence soils from the Sierra Nevada, California, J. Geophys. Res. Biogeosci., 121, 2877–2885, doi:10.1002/2016JG003597.
Berhe, Asmeret	Sebastian Doetterl, Asmeret Asefaw Berhe, Elisabet Nadeu, Zhengang Wang, Michael Sommer, Peter Fiener (2016). Erosion, deposition and soil carbon: A review of process-level controls, experimental tools and models to address C cycling in dynamic landscapes
Berhe, Asmeret	Emma P McCorkle, Asmeret Asefaw Berhe, Carolyn T Hunsaker, Dale W Johnson, Karis J McFarlane, Marilyn L Fogel, Stephen C Hart (2016). Tracing the source of soil organic matter eroded from temperate forest catchments using carbon and nitrogen isotopes
Berhe, Asmeret	C. Fissore, B.J. Dalzell, A.A. Berhe, M. Voegtle, M. Evans, A Wu (2017). Influence of topography on soil organic carbon dynamics in a Southern California grassland
Berhe, Asmeret	Samuel N Araya, Marilyn L Fogel, Asmeret Asefaw Berhe (2017). Thermal alteration of soil physico-chemical properties: a systematic study to infer response of Sierra Nevada climosequence soils to forest fires.
Berhe, Asmeret	Kate Lajtha, Edith Bai, Troy Baisden, Asmeret Asefaw Berhe, Breck Bowden, Jack Brookshire, Eddie Brzostek, Susan Crow, Charles Driscoll, Chris Evans, Jacques Finlay, Melany Fisk, Stuart Grandy, Leila Hamdan, John Harrison, Christine Hawkes, Karsten Kalbitz, Sujay Kaushal, Marc Kramer, Egbert Matzner, John Melack, Jan Mulder, Stephen Porder, Jonathan Sanderman, Emily Stanley, Jennifer Tank, Melanie Vile, Maren Voss, Kel Wieder, Susan Ziegler (2017). Brave new world.
Berhe, Asmeret	Jonathan Sanderman, Asmeret Asefaw Berhe (2017). Biogeochemistry: The soil carbon erosion paradox
Bernacchi, Leigh	Leigh Bernacchi, Tarla Rai Peterson (2016). 5 How reductive scientific narratives constrain possibilities for citizen engagement in community-based conservation. Environmental Communication and Community: Constructive and Destructive Dynamics of Social Transformation

Beutel, Marc	Jason J Williams Andrea Nurse Jasmine, E Saros Jon Riedel Marc Beutel (2016). Erratum to: Effects of glaciers on nutrient concentrations and phytoplankton in lakes within the Northern Cascades Mountains (USA).
Beutel, Marc	Marc W Beutel, Ricardi Duvil, Francisco J Cubas, David A Matthews, Frank M Wilhelm, Thomas J Grizzard, David Austin, Alexander J Horne, Seyoum Gebremariam (2016). A review of managed nitrate addition to enhance surface water quality.
Beutel, Marc	Marc W Beutel, Suzanne E Cox, Seyoum Gebremariam (2016). Effects of chironomid density and dissolved oxygen on mercury efflux from profoundal lake sediment.
Beutel, Marc	George M Neerackal, Pius M Ndegwa, Hung-Soo Joo, Xiang Wang, Craig S Frear, Joseph H Harrison, Marc W Beutel (2016). Potential application on Alcaligenes faecalis strain No. 4 in mitigating ammonia emissions from dairy wastewater.
Beutel, Marc	JJ Williams, M Beutel, A Nurse, B Moore, SE Hampton, JE Saros (2016). Phytoplankton responses to nitrogen enrichment in Pacific Northwest, USA Mountain Lakes Hydrobiologia 776 (1), 262-276
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Beutel, Marc	Laura Chiarantini, Valentina Rimondi, Marco Benvenuti, Marc W Beutel, Pilario Costagliola, Cristina Gonnelli, Pierfranco Lattanzi, Mario Paolieri (2016). Black pine (Pinus nigra) barks as biomonitors of airborne mercury pollution. Water, Air, & Soil Pullution 227 (11), 408
Beutel, Marc	Jason J Williams, Andrea Nurse, Jasmine E Saros, Jon Riedel, Marc Beutel (2016). Effects of glaciers on nutrient concentrations and phytoplankton in lakes within the Northern Cascades Mountains (USA) Biogeochemistry 131 (3), 373-385
Beutel, Marc	Jason J Williams, Andrea Nurse, Jasmine E Saros, Jon Riedel, Marc Beutel (2016). Effects of glaciers on nutrient concentrations and phytoplankton in lakes within the Northern Cascades Mountains (USA)(vol 131, pg 373, 2016)
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Blois, Jessica	David J Lorenz, Diego Nieto-Lugilde, Jessica L Blois, Matthew C Fitzpatrick, John W Williams (2016). Downscaled and debiased climate simulations for North America from 21,000 years ago to 2100AD. Scientific Data 3
Blois, Jessica	Sarah K Brown, Jessica L Blois (2016). The complete mitochondrial genome of the dusky-footed woodrat (Neotoma fuscipes)(Rodentia, Cricetidae) Mitochondrial DNA Part B 1 (1), 728-729
Blois, Jessica	Michael N Dawson, Jan C Axmacher, Carl Beierkuhnlein, Jessica L Blois, Bethany A Bradley, Anna F Cord, Jürgen Dengler, Kate S He, Lawrence R Heaney, Roland Jansson, Miguel D Mahecha, Corinne Myers, David Nogués-Bravo, Anna Papadopoulou, Björn Reu, Francisco Rodríguez-Sánchez, Manuel J Steinbauer, Alycia Stigall, Mao-Ning Tuanmu, Daniel G Gavin (2016). A second horizon scan of biogeography: Golden Ages, Midas touches, and the Red Queen. Frontiers of Biogeography 8 (4)
Blois, Jessica	S Kathleen Lyons, Kathryn L Amatangelo, Anna K Behrensmeyer, Antoine Bercovici, Jessica L Blois, Matt Davis, William A DiMichele, Andrew Du, Jussi T Eronen, J Tyler Faith, Gary R Graves, Nathan Jud, Conrad Labandeira, Cindy V Looy, Brian McGill, Joshua H Miller, David Patterson, Silvia Pineda-Munoz, Richard Potts, Brett Riddle, Rebecca Terry, Anikó Tóth, Werner Ulrich, Amelia Villaseñor, Scott Wing, Heidi Anderson, John Anderson, Donald Waller, Nicholas J Gotelli (2016). Holocene shifts in the assembly of plant and animal communities implicate human impacts. Nature 529 (7584), 80-83
Blois, Jessica	Kaitlin C Maguire, Diego Nieto-Lugilde, Jessica L Blois, Matthew C Fitzpatrick, John W Williams, Simon Ferrier, David J Lorenz (2016). Controlled comparison of species-and-community-level models across novel climates and communities. Proc. R. Soc. B 283 (1826), 20152817
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	DiMichele, Andrew Du, Jussi T Eronen, J Tyler Faith, Gary R Graves, Nathan Jud, Conrad Labandeira, Cindy V Looy, Brian McGill, David Patterson, Silvia Pineda-Munoz, Richard Potts, Brett Riddle, Rebecca Terry, Aniko Toth, Werner Ulrich, Amelia Villasenor, Scott Wing, Heidi Anderson, John Anderson, Nicholas J Gotelli (2016). How foreign is the past? Reply
Blois, Jessica	S Kathleen Lyons, Joshua H Miller, Kathryn L Amatange, Anna K Behrensmeyer, Antoine Bercovici, Jessica L Blois, Matt Davis, William DiMichele, Andrew Du, Jussi T Eronen, J Tyler Faith, Gary R Graves, Nathan Jud, Conrad Labandeira, Cindy V Looy, Brian McGill, David Patterson, Silvia Pineda-Munoz, Richard Potts, Brett Riddle, Rebecca Terry, Anikó Tóth, Werner Ulrich, Amelia Villaseñor, Scott Wing, Heidi Anderson, John Anderson, Nicholas J Gotelli (2016). Lyons et al. reply
Blois, Jessica	Benjamin Blonder, Derek E Moulton, Jessica Blois, Brian J Enquist, Bente J Graae, Marc Macias-Fauria, Brian McGill, Sandra Nogué, Alejandro Ordonez, Brody Sandel, Jens-Christian Svenning (2017). CORRIGENDUM Corrigendum for Blonder et al.(2017). Ecology Letters 20, 690
Blois, Jessica	Anthony D Barnosky, Elizabeth A Hadly, Patrick Gonzalez, Jason Head, P David Polly, A Michelle Lawing, Jussi T Eronen, David D Ackerly, Ken Alex, Eric Biber, Jessica Blois, Justin Brashares, Gerardo Ceballos, Edward Davis, Gregory P Dietl, Rodolfo Dirzo, Holly Doremus, Mikael Fortelius, Harry W Greene, Jessica Hellmann, Thomas Hickler, Stephen T Jackson, Melissa Kemp, Paul L Koch, Claire Kremen, Emily L Lindsey, Cindy Looy, Charles R Marshall, Chase Mendenhall, Andreas Mulch, Alexis M Mychajliw, Carsten Nowak, Uma Ramakrishnan, Jan Schnitzler, Kashish Das Shrestha, Katherine Solari, Lynn Stegner, M Allison Stegner, Nils Chr Stenseth, Marvalee H Wake, Zhibin Zhang (2017). Merging paleobiology with conservation biology to guide the future of terrestrial ecosystems. Science 355 (6325), eaah4787
Blois, Jessica	Benjamin Blonder, Derek E Moulton, Jessica Blois, Brian J Enquist, Bente J Graae, Marc Macias-Fauria, Brian McGill, Sandra Nogué, Alejandro Ordonez, Brody Sandel, Jens-Christian Svenning (2017). Predictability in community dynamics. Ecology Letters 20 (3), 293-306
Blois, Jessica	A Michelle Lawing, Jussi T Eronen, Jessica L Blois, Catherine H Graham, P David Polly (2017). Community functional trait composition at the continental scale: the effects of non-ecological processes. Ecography 40 (5), 651-663
Blois, Jessica	Benjamin Blonder, Derek E Moulton, Jessica Blois, Brian J Enquist, Bente J Graae, Marc Macias-Fauria, Brian McGill, Sandra Nogue, Alejandro Ordonez, Brody Sandel, Jens-Christian Svenning (2017). Predictability in community dynamics (vol 20, pg 293, 2017) ECOLOGY LETTERS 20 (5), 690-690

Blois, Jessica	Brandi McKuin, J Elliott Campbell (2016). Emissions and climate forcing from global and Artic fishing vessels. Journal of Geophysical Research: Atmospheres
Blois, Jessica	Yuting Wang, Nicholas M Deutscher, Mathias Palm, Thorsten Warneke, Justus Notholt, Ian Baker, Joe Berry, Parvadha Suntharalingam, Nicholas Jones, Emmanuel Mahieu, Bernard Lejeune, James Hannigan, Stephanie Conway, Joseph Mendonca, Kimberly Strong, J Elliott Campbell, Adam Wolf, Stefanie Kremser (2016). Towards understanding the variability in biospheric CO 2 fluxes: using FTIR spectrometry and a chemical transport model to investigate the sources and sinks of carbonyl sulfide and its link to CO 2. Atmospheric Chemistry and Physics 16 (4), 2123-2138
Blois, Jessica	Mary E Whelan, Timothy W Hilton, Joseph A Berry, Max Berkelhammer, Ankur R Desai, J Elliott Campbell (2016). Carbonyl sulfide exchange in soils for better estimates of ecosystem carbon uptake. Atmospheric Chemistry and Physics 16 (6), 3711-3726
Burkhart, John	Alexandre Roy, Alain Royer, Olivier St-Jean-Rondeau, Benoit Montpetit, Ghislain Picard, Alex Mavrovic, Nicolas Marchand, Alexandre Langlois (2016). Microwave snow emission modeling uncertainties in boreal and subarctic environments. The Cryosphere
Burkhart, John	Wiley Steven Bogren, John Burkhart, Arve Kylling (2016). Tilt error in cryospheric surface radiation measurements at high latitudes: a model study
Burkhart, John	Eungul Lee, John Burkhart, Sarah Olson, Anthony A Billings, Jonathan A Patz, E James Harner (2016). Relationships of climate and irrigation factors with malaria parasite incidences in two climatically dissimilar regions in India. Academic Press
Burkhart, John	Dorothy L Fibiger, Jack E Dibb, Dexian Chen, Jennie L Thomas, John F Burkhart, L Gregory Huey, Meredith G Hastings (2016). Analysis of nitrate in the snow and atmosphere at Summit, Greenland: Chemistry and transport. Journal of Geophysical Research: Atmospheres.
Burkhart, John	Taneil Uttal, Sandra Starkweather, James R Drummond, Timo Vihma, Alexander P Makshtas, Lisa S Darby, John F Burkhart, Christopher J Cox, Lauren N Schmeisser, Thomas Haiden, Marion Maturilli, Matthew D Shupe, Gijs De Boer, Auromeet Saha, Andrey A Grachev, Sara M Crepinsek, Lori Bruhwiler, Barry Goodison, Bruce McArthur, Von P Walden, Edward J Dlugokencky, P Ola G Persson, Glen Lesins, Tuomas Laurila, John A Ogren,

	Robert Stone, Charles N Long, Sangeeta Sharma, Andreas Massling, David D Turner, Diane M Stanitski, Eija Asmi, Mika Aurela, Henrik Skov, Konstantinos Eleftheriadis, Aki Virkkula, Andrew Platt, Eirik J Førland, Yoshihiro Iijima, Ingeborg E Nielsen, Michael H Bergin, Lauren Candlish, Nikita S Zimov, Sergey A Zimov, Norman T O'Neill, Pierre F Fogal, Rigel Kivi, Elena A Konopleva-Akish, Johannes Verlinde, Vasily Y Kustov, Brian Vasel, Viktor M Ivakhov, Yrjö Viisanen, Janet M Intrieri (2016). International Arctic Systems for Observing the Atmosphere: An International Polar Year Legacy Consortium. Bulletin of the American Meteorological Society
Burkhart, John	Trine J Hegdahl, Lena M Tallaksen, Kolbjørn Engeland, John F Burkhart, Chong-Yu Xu (2016). Discharge sensitivity to snowmelt parameterization: a case study for Upper Beas basin in Himachal Pradesh, India. Hydrology Research
Burkhart, John	Umed Paliwal, Mukesh Sharma, John F Burkhart (2016). Monthly and spatially resolved black carbon emission inventory of India: uncertainty analysis. Atmospheric Chemistry and Physics
Burkhart, John	Ignacio Pisso, Espen Sollum, Henrik Grythe, Nina Kristiansen, Massimo Cassiani, Sabine Eckhardt, Rona Thompson, Christine Groot Zwaaftnik, Nikolaos Evangeliou, Thomas Hamburger, Harald Sodemann, Leopold Haimberger, Stephan Henne, Dominik Brunner, John Burkhart, Anne Fouilloux, Xuekun Fang, Anne Phillip, Petra Seibert, Andreas Stohl (2017). The Lagrangian particle dispersion model FLEXPART version 10. EGU General Assembly Conference Abstracts
Burkhart, John	Juraj Parajka, Nejc Bezak, John Burkhart, Ladislav Holko, Yeshewa Hundecha, Pavel Krajci, Walter Mangini, Peter Molnar, Aynur Sensoy, Phillippe Riboust, Jonathan Rizzi, Guillaume Thirel, Berit Arheimer (2017). Estimation of snow line elevation changes from MODIS snow cover data. EGU General Assembly Conference Abstracts
Burkhart, John	Felix Matt, John F Burkhart (2017). Investigating the effect and uncertainties of light absorbing impurities in snow and ice on snow melt and discharge generation using a hydrologic catchment model and satellite data. EGU General Assembly Conference Abstracts
Burkhart, John	John F Burkhart, Sven Decker, Simon Filhol, John Hulth, Atle Nesje, Thomas V Schuler, Stefan Sobolowski, Lena M Tallaksen (2017). Development of the Finse Alpine Research Station towards a platform for multi-disciplinary research on Land-Atmosphere Interaction in Cold Environments (LATICE). EGU General Assembly Conference Abstracts
Burkhart, John	Shilong Piao, Zhuo Liu, Tao Wang, Shushi Peng, Philippe Ciais, Mengtian Huang, Anders Ahlstrom, John F Burkhart, Frédéric Chevallier, Ivan A

	Janssens, Su-Jong Jeong, Xin Lin, Jiafu Mao, John Miller, Anwar Mohammat, Ranga B Myneni, Josep Peñuelas, Xiaoying Shi, Andreas Stohl, Yitong Yao, Zaichun Zhu, Pieter P Tans (2017). Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. Nature Climate Change
Campbell, Elliot	Yi Yang, J Elliott Campbell (2017). Improving attributional life cycle assessment for decision support: the case of local food in sustainable design. Journal of Cleaner Production
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Campbell, Elliot	JE Campbell, JA Berry, U Seibt, Steven J Smith, SA Montzka, T Launois, S Belviso, L Bopp, M Laine (2017). Large historical growth in global terrestrial gross primary production
Campbell, Elliot	Timothy W Hilton, Mary E Whelan, Andrew Zumkehr, Sarika Kulkarni, Joseph A Berry, Ian T Baker, Stephen A Montzka, Colm Sweeney, Benjamin R Miller, J Elliott Campbell (2017). Peak growing season gross uptake of carbon in North America is largest in the Midwest USA. Nature Climate Change
Campbell, Elliot	Wyatt Thompson, Scott Gerlt, J Elliott Campbell, Lara M Kueppers, Yaqiong Lu, Mark A Snyder (2017). A Cost tractability? Estimating Climate Change Impacts Using a Single Crop Market Understates Impacts on Market Conditions and Variability
Campbell, Elliot	Zhuo Li, Lu Liu, Sina Dehghan, YangQuan Chen, Dingyü Xue (2016). A review and evaluation of numerical tools for fractional calculus and fractional order controls. Encyclopedia of Aerospace Engineering
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Castanha, Cristina	Lara M Kueppers, Erin Conlisk, Cristina Castanha, Andrew B Moyes, Matthew J Germino, Perry Valpine, Margaret S Torn, Jeffry B Mitton (2016). Warming and provenance limit tree recruitment across and beyond the elevation range of subalpine forest. Global Change Biology

Castanha, Cristina	Erin Conlisk, Cristina Castanha, Matthew J Germino, Thomas T Veblen, Jeremy M Smith, Lara M Kueppers (2017). Declines in low-elevation subalpine tree populations outpace growth in high-elevation populations with warming. Journal of Ecology
Castanha, Cristina	Caitlin Hicks Pries, Cristina Castanha, Rachel Porras, Margaret Torn (0217). Blodgett Forest Warming Experiment 1. Lawrence Berkeley National Laboratory (LBNL), Berkeley, CA (United States)
Castanha, Cristina	Caitlin E Hicks Pries, C Castanha, RC Porras, MS Torn (2017). The whole-soil carbon flux in response to warming. Science 355 (6332), 1420-1423
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Chen, Yang Quan	Fudong Ge, YangQuan Chen, Chunhai Kou (2016). Actuator characterisations to achieve approximate controllability for a class of fractional sub-diffusion equations. International Journal of Control
Chen, Yang Quan	WeiJia Zheng, Ying Luo, YangQuan Chen, YouGuo Pi (2016). Fractional-order modeling of permanent magnet synchronous motor speed servo system. Journal of Vibration and Control
Chen, Yang Quan	Haoran Zhao, Liyan Qiao, Yangquan Chen (2016). Modulated wideband convertor for α-bandlimited signals in fractional fourier domain. Carpathian Control Conference (ICCC), 2016 17th International
Chen, Yang Quan	Hadi Malek, YangQuan Chen (2016). Fractional Order Extremum Seeking Control: Performance and Stability Analysis. IEEE/ASME Transactions on Mechatronics
Chen, Yang Quan	Brendan Smith, Garrett John, Brandon Stark, Lance E Christensen, YangQuan Chen (2016). Applicability of unmanned aerial systems for leak detection. Unmanned Aircraft Systems (ICUAS), 2016 International Conference on
Chen, Yang Quan	Bo Shang, Jianxin Liu, Tiebiao Zhao, YangQuan Chen (2016). Fractional order robust visual servoing control of a quadrotor UAV with larger sampling period. Unmanned Aircraft Systems (ICUAS), 2016 International Conference
Chen, Yang Quan	Brandon Stark, Tiebiao Zhao, YangQuan Chen (2016). An analysis of the effect of the bidirectional reflectance distribution function on remote sensing imagery accuracy from small unmanned aircraft systems. Unmanned Aircraft Systems (ICUAS), 2016 International Conference

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Chen, Yang Quan	Hadi Malek, Sara Dadras, Yangquan Chen (2016). Fractional order equivalent series resistance modelling of electrolytic capacitor and fractional order failure prediction with application to predictive maintenance. IET Power Electronics
Chen, Yang Quan	Jiacai Huang, Yangquan Chen, Haibin Li, Xinxin Shi (2016). Fractional order modeling of human operator behavior with second order controlled plant and experiment research. IEEE/CAA Journal of Automatica Sinica
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Stephens, Molly	Stankovic, David; Stephens, Molly; Snoj, Ales. "Origin and introduction history of self-sustaining rainbow trout populations in Europe as inferred from mitochondrial DNA and a Y-linked marker". Hydrobiologia May2016
Westerlin, Anthony	ALR Westerling (2016). Increasing western US forest wildfire activity: sensitivity to changes in the timing of spring. Phil. Trans. R. Soc. B
Westerlin, Anthony	M.G. Turner, D.C. Donato, W.D. Hansen, B.J. Harvey, W.H. Romme, A.L. Westerling (2016). Climate change and novel disturbance regimes in national park landscapes. Science for Parks. Parks for Science: The Next Century
Westerlin, Anthony	Anthony LeRoy Westerling (2016). Wildfires in the West have gotten bigger, more frequent and longer since the 1980's. The Conversation
Westerlin, Anthony	A.L. Westerling, T.J. Brown, T. Schoennagel, T.W. Swetnam, M.G. Turner, T.T. Veblen (2016). Climate and Wildfire in Western U.S. Forests. Forest Conservation in the Anthropcene: Science, Policy and Practice
Westerlin, Anthony	Anthony LeRoy Westerling (2016). Correction to 'Increasing western US Forest wildfire activity: sensitivity to changes in the timing of spring' Philosophical Transactions of the Roayal Society B: Biological Sciences
Westerlin, Anthony	Anthony D. Barnosky, Teenie Matlock, Jon Christensen, Harrie Han, Jack Miles, Ronald E. Rice, LeRoy Westerling, Lisa White (2016). Establishing Common Ground: Finding Better Ways to Communicate About Climate Disruption. Collabra 2 (1), 1-20

Westerlin, Anthony	A.R. Keyser, A.L. Westerling (2017). Climate drives inter-annual variability in probability of high severity fire occurrence in the western United States. Enviromental Research Letters
Westerlin, Anthony	Shuang Liang, Matthew Hurteau, Anthony LeRoy Westerling (2017). Potential decline in carbon carrying capacity with changing climate in the Sierra Nevada. Scientific Reports
Westerlin, Anthony	Shuang Liang, Matthew D. Hurteau, Anthony LeRoy Westerling (2017). Response of Sierra Nevada forests to projected climate-wildfire interactions. Global Change Biology
Westerlin, Anthony	Kaitlin C Lubetkin, Anthony Leroy Westerling, Lara M Kueppers (2017). Climate and landscape drive the pace and pattern of conifer encroachment into subalpine meadows. Ecological Applications
Winston, Roland	Abdelhamid, Mahmoud; Widyolar, bennett L.; Jiang, Lun; Winston, Roland; Yablonovitch, Eli; Scranton, Gregg; Cygan, David; Abbasi, Hamid, Kozlov, Aleksandr. "Novel double-stage high-concentrated solar hybrid photovoltaic/thermal (PV/T) collector with nonimaging optics and GaAs solar cells reflector". Applied Energy. Nov2016
Winston, Roland	Widyolar, Bennett K.; Abdelhamid, Mahmoud; Jiang, Lun; Winston, Roalnd "Design, simulation and experimental characterization of a novel parabolic trough hybrid solar photovoltaic/thermal (PV/T) collector". Renewable Energy: An International Journal. Feb2017
Viers, Joshua	David V Gealy, Stephen McKinley, Menglong Guo, Lauren Miller, Stavros Vougioukas, Joshua Viers, Stefano Carpin, Ken Goldberg (2016). Co-robotic device for automated tuning of emitters to enable precision irrigation. IEEE Internation Conference on Automation Science and Engineering (CASE)
Viers, Joshua	David E Rheinheimer, Roger C Bales, Carlos A Oroza, Jay R Lund, Joshua H Viers (2016). Valuing year-to-go hydrologic forecast improvements for a peaking hydropower system in the Sierra Nevada. Water Resources Research
Viers, Joshua	Sarah Tarnell, Ryan Peek, Gerhard Epke, Amy Lind (2016). Management of the Spring Snowmelt Recession in Regulated Systems. JAWRA Journal of the American Water Resources Association
Viers, Joshua	David E Rheinheimer, Sarah E Null, Joshua H Viers (2016). Climate-Adaptive Water Year Typing for Instream Flow Requirements in California's Sierra Nevada. Journal of water Resources Planning and Management

Viers, Joshua	Jenny Ta, T Rodd Kelsey, Jeanette K Howard, Jay R Lund, Samuel Sandoval-Solvis, Joshua H Viers (2016). Simulation Modeling to Secure Environmental Flows in a Diversion Modified Flow Regime. Journal of Water Resources Planning and Management
Viers, Joshua	David V Gealy, Stephen McKinley, Menglong Guo, Lauren Miller, Stavros Vougioukas, Joshua Viers, Stefano Carpin, Ken Goldberg (2016). DATE: A handheld co-robotic device for automated tuning of emitters to enable precision irrigation. Automation Science and Engineering (CASE), 2016 IEEE International Conference
Viers, Joshua	Theodore E Grantham, Kurt A Fesenmyer, Ryan Peek, Eric Holmes, Rebecca M Quinones, Andy Bell, Nick Santos, Jeanette K Howard, Joshua H Viers, Peter B Moyle (2017). Missing the boat on freshwater fish conservation in California. Conservation Letters
Viers, Joshua	Alison A Whipple, Joshua H Viers, helen E Dahkle (2017). Flood regime typology for floodplain ecosystem management as applied to the unregulated Cosumnes River of California, United States. Ecohydrology
Viers, Joshua	Zachary L Steel, Anna E Steel, John N Williams, Joshua H Viers, Pablo A Marquet, Olga Barbosa (2017). Patterns of bird diversity and habitat use in mixed vineyard-matorral landscapes of Central Chile. Ecological Indicators
Viers, Joshua	Kristin Steger, Amy T Kim, Joshua H Viers, Peter Fiener, David R Smart (2017). Deep soil dynamics of floodplain carbon in the Central Valley of California. EGU General Assembly Conference Abstracts
Viers, Joshua	Karla J Winkler, Joshua H Viers, Kimberly A Nicholas (2017). Assessing ecosystem services and multifunctionality for vineyard systems. Frontiers in Environmental Science
Viers, Joshua	Jorge Andres Morande, Christine M Stockert, Garrett C Liles, John N Williams, David R Smart, Joshua H Viers (2017). From berries to blocks: carbon stock quantification of a California vineyard. Carbon balance and management
Vincent, Emmanuel	Christophe E Menkes, Matthieu Lengaigne, Marina Lévy, Christian Ethé, Laurent Bopp, Olivier Aumont, Emmanuel Vincent, Jérôme Vialard, Swen Jullien (2016). Global impact of tropical cyclones on primary production. Global Biogeochemical Cydes
Vincent, Emmanuel	Natalie J Burls, Leslie Muir, Emmanuel M Vincent, Alexey Fedorov (2017). Extra-tropical origin of equatorial Pacific cold bias in climate models with links to cloud albedo. Climate Dynamics

Yoon Yeosang

Yeosang Yoon, Pierre-André Garambois, Rodrigo CD Paiva, Michael Durand, Hélène Roux, Edward Beighley (2016). Improved error estimates of a discharge algorithm for remotely sensed river measurements: Test cases on Sacramento and Garonne Rivers. Water Resources Research

Attachment E

SNRI Account Summary by Department all Funds and Sources

For the period June 1,2017 to June 30, 2017

EXPENDITURES (Current Funds)

Department : F100 SIERRA NEVADA RESEARCH INSTITUTE

		Fiscal Year		Inception	
Account/CC	Fund	Appropriation ( )=Debit	Expenditures ( )=Credit	Appropriation ( )=Debit	Expenditures ( )=Credit
449001	RESEARCH-SIERRA NEVADA RES INST-OPER				
	23494	5760.71	5760.71	18247.17	18247.17
449001/2A	RESEARCH-SNRI-OPERATIONS				
	19900	561035.11	558922.48	561035.11	558922.48
	37365				
	40061	17986.70	4044.13	17986.70	4044.13
	55163	7969.94		7969.94	
	68320	4221.50		4221.50	
449001/6A	RESEARCH-SNRI-OPERATIONS-DEPT RESEARCH				
	69085				
449001/AJ	RESEARCH-SIERRA NEVADA RES INST-A. JOYCE				
	69085				
449001/CC	RESEARCH-SNRI-CLIMATE COMMUNICATION				
	19900	151163.58	111269.66	151163.58	111269.66
	40061	34773.56	22096.99	34773.56	22096.99
449001/MS	RESEARCH-SIERRA NEVADA RES INST-SAFEEQ				
	22473	87668.03	40391.27	121650.00	74373.24
	57569	34861.00	31373.86	34861.00	31373.86
449001/SJ	RES-SIERRA NEVADA RES INST-S JEPSEN				
	24933			37681.84	37681.84
449001/VR	RESEARCH-SNRI-OPERATION-VEHICLE RECHARGE				
	19900	10888.37	10888.37	10888.37	10888.37
449001/WA	RESEARCH-SNRI-WAWONA FIELD STATION-OP				
	19900				
	68320	364.49		364.49	
449002/NM	RESEARCH-SNRI-IDC RETURN-N MILLER				
	20095	567.50		567.50	
449002/SJ	RESEARCH-SNRI-IDC RETURN-S JEPSON				
	20095	388.78	365.47	388.78	365.47
449002/WR	RESEARCH-SNRI-IDC RETURN-ROGGE				
	20095	34.25		34.25	
449205/CF	RESRCH-SNRI EARTH SYS-PART SUPP-C-FRANK				
	21267	20000.00		20000.00	
449205/SH	RESEARCH-SNRI-EARTH SYS-PART SUPPRT-HART				
	21228			225948.21	225948.21
449208/RB	RES-SNRI-ENV ENG-OVRD VAR-R BALES				
	21241	4770.30		12445.00	7674.70
449209/RB	RESEARCH-SNRI-ENV ENG-PART SUPP-BALES				
	21241	130973.39	100000.00	300064.00	269090.61
449213/ER	RES-SNRI-COMPUTER SCI & ENG-E ROLLAND				
	58117				
449214	RESEARCH-SNRI-ENVIRONMENTAL ENGINEERING				
	23494			244.36	244.36
449214/AJ	RESEARCH-SNRI-ENV ENG ANDREA JOYCE				
	57221			39957.44	39957.44
	57223			34380.48	34380.48
	58106	(314.95)	(314.95)	25563.00	25563.00
	58134	513.28	142.12	15000.00	14628.84
449214/AW	RESEARCH-SNRI-ENVRNMNTL ENG-A WESTERLING				
	18236			65142.08	65142.08

	18299			39190.65	39190.65
	18300			74718.34	74718.34
	18344	49214.72	22828.65	250000.00	223613.93
	18355	96222.43	42584.01	118464.00	64825.58
	22114	16948.24	17520.25	60000.00	60572.01
	22477	116358.96	28616.52	190000.00	102257.56
	25202			121980.48	121980.48
	57558	107642.81	95061.11	153019.52	140437.82
	57578	29177.00	8214.08	29177.00	8214.08
	69085				
	69090	90750.00	2147.19	90750.00	2147.19
449214/J1	RESEARCH-SNRI-ENVIRONMENTL ENG-CAMPBELL				
	37658	48434.86	31443.81	48434.86	31443.81
449214/JC	RESEARCH-SNRI-ENV ENG-J ELLIOT CAMPBELL				
	21300	1346241.00	126582.65	1346241.00	126582.65
	22423	503512.71	255329.48	623284.68	375101.45
	37658	70000.00		70000.00	
	58110	16498.50	15045.68	249277.00	247824.18
	69763	202053.16	89390.78	202053.16	89390.78
	69851	9021.49	5500.00	9021.49	5500.00
449214/JV	RES-SNRI-ENVIR ENG-J VIERS				
	58122	761.86		35000.00	34238.14
449214/M1	RESEARCH-SNRI-ENVIRONMENTL ENG-M CONKLIN				
	18308	92016.63	32953.57	100000.00	40936.94
	21101			223240.18	223240.18
	21241	270258.69	133592.66	463809.00	327142.97
449214/M2	RESEARCH-SNRI-ENVIRONMENTL ENG-M CONKLIN				
	18308	88000.00		88000.00	
	69085	187893.78	87666.13	187893.78	87666.13
449214/MC	RESEARCH-SNRI-ENVIRONMENTL ENG-M CONKLIN				
	07427	(27906.90)		(27906.90)	
	18240			162590.64	162590.64
	18296			130839.22	130839.22
	18306			136135.79	136135.79
	18308	54921.82	38278.79	68183.00	51539.97
	21101			185144.86	185144.86
	21241	95721.07	60003.47	157096.20	121378.60
	22467	(108.35)	(108.35)	207285.21	207285.21
	22476	(600.00)	(600.00)	200263.81	200263.81
	22600	394099.00	121679.11	394099.00	121679.11
	25650			(0.06)	(0.06)
	26723	100808.87	83156.63	162000.00	144347.76
	37658				
	40080	3800.00	3914.54	3800.00	3914.54
449214/Q1	RESEARCH-SNRI-ENVIRONMENTAL ENG-Q. GUO				
	21101			435320.96	435320.96
449214/QG	RESEARCH-SNRI-ENVIRONMENTAL ENG-Q. GUO				
	18296			12035.80	12035.80
	21101			47862.73	47862.73
	21263	110393.85	59162.47	265854.00	214622.62
	22478			189609.00	189609.00
	22482	6355.21		38409.00	32053.79
	22604			50492.26	50492.26
	24922			59248.49	59248.49
449214/R1	RESEARCH-SNRI-ENVIRONMENTAL ENG-R. BALES				
	21101			443406.53	443406.53
	21241	940233.68	384320.08	1749270.80	1193357.20
	22480	20000.00	11080.66	20000.00	11080.66
449214/R2	RESEARCH-SNRI-ENVIRONMENTAL ENG-R. BALES				
	21101			99442.62	99442.62
	21241	70720.56	41098.52	109554.00	79931.96

	40061	4759.50		4759.50	
	69085	395294.12	232433.88	395294.12	232433.88
449214/RB	RESEARCH-SNRI-ENVIRONMENTAL ENG-R. BALES				
	05397	321.01		321.01	
	18295			118662.89	118662.89
	18296			145705.81	145705.81
	18301			124225.82	124225.82
	18365	431052.69	60759.15	454644.00	84350.46
	21101			359232.01	359232.01
	21205	3023.11	3136.91	1705280.00	1705393.80
	21241	175912.27	77363.28	407635.00	309086.01
	22470	119987.69	120227.45	238436.00	238675.76
	22475	3977.85	3987.40	122500.00	122509.55
	22480	179556.01	77233.98	304000.00	201677.97
	36470	77515.36	77860.10	77515.36	77860.10
	40080	51250.78	20648.44	51250.78	20648.44
	58143			20308.46	20308.46
	69085	197851.09		197851.09	
	69851				
	75554	(46.07)	(46.39)	(46.07)	(46.39)
449214/RR	RESEARCH-SNRI-ENVIR ENG-R. RICE				
	22471	164400.48	26817.44	206005.23	68422.19
449214/WR	RESEARCH-SNRI-ENVIRO ENGINEERING W ROGGE				
	21282	2010.40	2010.40	3940.94	3940.94
449216/YC	RESEARCH-SNRI-MECHANICAL ENG-Y CHEN				
	36470	56494.49	12724.17	56494.49	12724.17
449224/RB	RSRCH-SNRI-ENV ENG-COST SHARE-BALES				
	19900	135566.38	81894.85	135566.38	81894.85
449253/AB	RES-SNRI-EARTH SYSTEMS SCIENCES-A BERHE				
	21241	10023.61	3561.36	14039.00	7576.75
449253/CF	RES-SNRI-EARTH SYSTEMS SCIENCES-C FRANK				
	21267	1314110.41	260527.12	1633447.00	579863.71
449253/JS	RES-SNRI-EARTH SYSTEMS SCIENCES J SEXTON				
	40061	28025.00	20761.12	28025.00	20761.12
449253/LK	RESEARCH-SNRI-EARTH SYSTEMS SCIENCES				
	22410	65569.79	60971.95	1087541.06	1082943.22
	26724			19128.45	19128.45
449253/NM	RES-SNRI-EARTH SYSTEMS SCIENCES-N MILLER				
	18307			19350.04	19350.04
	21246			46919.80	46919.80
	23206			72210.31	72210.31
	69085	203.68		203.68	
449253/PO	RESEARCH-SNRI-EARTH SYSTEMS-P. O'DAY				
	21221	85.26	85.26	299999.52	299999.52
	22416			691296.46	691296.46
	22426	200000.00	83148.44	200000.00	83148.44
	40061	8660.99	557.80	8660.99	557.80
	58123			42327.00	42327.00
	58139	286148.41	142985.78	361535.00	218372.37
449253/SH	RESEARCH-SNRI-EARTH SYSTEMS - S. HART				
	18366	140540.29	71895.52	140907.00	72262.23
	21101			41674.46	41674.46
	21228			66531.12	66531.12
	21241	49001.67	32408.52	140208.00	123614.85
	57097	80887.46	35210.12	92643.00	46965.66
	58149	2221.26	2221.26	5392.79	5392.79
449253/TG	RES-SNRI-EARTH SYSS SCIENCES T-GHEZZEHEI				
	22484	357300.00	14289.84	357300.00	14289.84
449315/KH	RESEARCH-SNRI-ANTHROPOLOGY-K. HULL				
	25653			89261.51	89261.51
	25655	2377.65	2281.20	34569.00	34472.55

	25657	74015.01	14070.02	74015.01	14070.02
449321/AJ	RESEARCH-SNRI-PSYCHOLOGY-A. JOYCE				
	58145	28713.02	30163.07	50000.00	51450.05
	58148	15257.83	15252.42	36476.08	36470.67
	58608	25391.00	25169.36	25391.00	25169.36
	58616	49000.00	36122.81	49000.00	36122.81
629001/DH	PUBLIC SERVICE-SNRI-NPI-HOSLEY				
	25652			154163.22	154163.22
	40039	977.49		977.49	
	69262	9082.55		9082.55	
629001/NP	PUB SERVICE-SNRI-NATL PARK INST-HOSLEY				
	25652			(8657.44)	(8657.44)
629001/RB	PUBLIC SERVICE-SNRI-R. BALES				
	69851	25000.00	4031.07	25000.00	4031.07
629001/Y3	PUBLIC SRVC-SNRI-NATL PARK INST-HOSLEY				
	25652			64.08	64.08
629213/ER	PUBLIC SERV-SNRI-COMP SCI & ENG-ROLLAND				
	40074				
	58117			13826.86	13826.86
789214/JC	FINANCIAL AID-SNRI-ENV ENG-CAMPBELL				
	37658	0.38	26589.20	0.38	26589.20
789214/MC	FINANCIAL AID-SNRI-ENV ENG-CONKLIN				
	18306			13864.00	13864.00
	18308		12294.00	12240.00	24534.00
789214/QG	FIN AID-SNRI-ENVIRONL ENG-Q GUO				
	24922			8541.08	8541.08
789214/RB	FIN AID-SNRI-ENVIRONMENTAL ENG-R BALES				
	21241			17488.00	17488.00
789253/SH	FIN AID-SNRI-LIFE/ENVIRON SCI-HART				
	21228			25650.00	25650.00
		$10,954,591.11	$4,373,050.90	$22,944,045.78	$16,362,505.57

Attachment F

SNRI Account Summary by Department of all Grant/Research Funds

For the period June 1,2017 to June 30, 2017

EXPENDITURES (Current Funds)

Department : F100 SIERRA NEVADA RESEARCH INSTITUTE

		Fiscal Year		Inception	
Account/CC	Fund	Appropriation ( )=Debit	Expenditures ( )=Credit	Appropriation ( )=Debit	Expenditures ( )=Credit
449001	RESEARCH-SIERRA NEVADA RES INST-OPER				
449001/2A	RESEARCH-SNRI-OPERATIONS				
	37365				
	68320	4221.50		4221.50	
449001/6A	RESEARCH-SNRI-OPERATIONS-DEPT RESEARCH				
	69085				
449001/AJ	RESEARCH-SIERRA NEVADA RES INST-A. JOYCE				
	69085				
449001/CC	RESEARCH-SNRI-CLIMATE COMMUNICATION				
449001/MS	RESEARCH-SIERRA NEVADA RES INST-SAFEEQ				
	22473	87668.03	40391.27	121650.00	74373.24
	57569	34861.00	31373.86	34861.00	31373.86
449001/SJ	RES-SIERRA NEVADA RES INST-S JEPSEN				
	24933			37681.84	37681.84
449001/VR	RESEARCH-SNRI-OPERATION-VEHICLE RECHARGE				
	19900	10888.37	10888.37	10888.37	10888.37
449001/WA	RESEARCH-SNRI-WAWONA FIELD STATION-OP				
	19900				
	68320	364.49		364.49	
449002/NM	RESEARCH-SNRI-IDC RETURN-N MILLER				
	20095	567.50		567.50	
449002/SJ	RESEARCH-SNRI-IDC RETURN-S JEPSON				
	20095	388.78	365.47	388.78	365.47
449002/WR	RESEARCH-SNRI-IDC RETURN-ROGGE				
	20095	34.25		34.25	
449205/CF	RESRCH-SNRI EARTH SYS-PART SUPP-C-FRANK				
	21267	20000.00		20000.00	
449205/SH	RESEARCH-SNRI-EARTH SYS-PART SUPPRT-HART				
	21228			225948.21	225948.21
449208/RB	RES-SNRI-ENV ENG-OVRD VAR-R BALES				
	21241	4770.30		12445.00	7674.70
449209/RB	RESEARCH-SNRI-ENV ENG-PART SUPP-BALES				
	21241	130973.39	100000.00	300064.00	269090.61
449213/ER	RES-SNRI-COMPUTER SCI & ENG-E ROLLAND				
	58117				
449214	RESEARCH-SNRI-ENVIRONMENTAL ENGINEERING				
	23494			244.36	244.36
449214/AJ	RESEARCH-SNRI-ENV ENG ANDREA JOYCE				
	57221			39957.44	39957.44
	57223			34380.48	34380.48
	58106	(314.95)	(314.95)	25563.00	25563.00
	58134	513.28	142.12	15000.00	14628.84
449214/AW	RESEARCH-SNRI-ENVRNMNTL ENG-A WESTERLING				
	18236			65142.08	65142.08
	18299			39190.65	39190.65
	18300			74718.34	74718.34
	18344	49214.72	22828.65	250000.00	223613.93
	18355	96222.43	42584.01	118464.00	64825.58
	22114	16948.24	17520.25	60000.00	60572.01

	22477	116358.96	28616.52	190000.00	102257.56
	25202			121980.48	121980.48
	57558	107642.81	95061.11	153019.52	140437.82
	57578	29177.00	8214.08	29177.00	8214.08
	69085				
	69090	90750.00	2147.19	90750.00	2147.19
449214/J1	RESEARCH-SNRI-ENVIRONMENTL ENG-CAMPBELL				
	37658	48434.86	31443.81	48434.86	31443.81
449214/JC	RESEARCH-SNRI-ENV ENG-J ELLIOT CAMPBELL				
	21300	1346241.00	126582.65	1346241.00	126582.65
	22423	503512.71	255329.48	623284.68	375101.45
	37658	70000.00		70000.00	
	58110	16498.50	15045.68	249277.00	247824.18
	69763	202053.16	89390.78	202053.16	89390.78
	69851	9021.49	5500.00	9021.49	5500.00
449214/JV	RES-SNRI-ENVIR ENG-J VIERS				
	58122	761.86		35000.00	34238.14
449214/M1	RESEARCH-SNRI-ENVIRONMENTL ENG-M CONKLIN				
	18308	92016.63	32953.57	100000.00	40936.94
	21101			223240.18	223240.18
	21241	270258.69	133592.66	463809.00	327142.97
449214/M2	RESEARCH-SNRI-ENVIRONMENTL ENG-M CONKLIN				
	18308	88000.00		88000.00	
	69085	187893.78	87666.13	187893.78	87666.13
449214/MC	RESEARCH-SNRI-ENVIRONMENTL ENG-M CONKLIN				
	07427	(27906.90)		(27906.90)	
	18240			162590.64	162590.64
	18296			130839.22	130839.22
	18306			136135.79	136135.79
	18308	54921.82	38278.79	68183.00	51539.97
	21101			185144.86	185144.86
	21241	95721.07	60003.47	157096.20	121378.60
	22467	(108.35)	(108.35)	207285.21	207285.21
	22476	(600.00)	(600.00)	200263.81	200263.81
	22600	394099.00	121679.11	394099.00	121679.11
	25650			(0.06)	(0.06)
	26723	100808.87	83156.63	162000.00	144347.76
	37658				
	40080	3800.00	3914.54	3800.00	3914.54
449214/Q1	RESEARCH-SNRI-ENVIRONMENTAL ENG-Q. GUO				
	21101			435320.96	435320.96
449214/QG	RESEARCH-SNRI-ENVIRONMENTAL ENG-Q. GUO				
	18296			12035.80	12035.80
	21101			47862.73	47862.73
	21263	110393.85	59162.47	265854.00	214622.62
	22478			189609.00	189609.00
	22482	6355.21		38409.00	32053.79
	22604			50492.26	50492.26
	24922			59248.49	59248.49
449214/R1	RESEARCH-SNRI-ENVIRONMENTAL ENG-R. BALES				
	21101			443406.53	443406.53
	21241	940233.68	384320.08	1749270.80	1193357.20
	22480	20000.00	11080.66	20000.00	11080.66
449214/R2	RESEARCH-SNRI-ENVIRONMENTAL ENG-R. BALES				
	21101			99442.62	99442.62
	21241	70720.56	41098.52	109554.00	79931.96
	40061	4759.50		4759.50	
	69085	395294.12	232433.88	395294.12	232433.88
449214/RB	RESEARCH-SNRI-ENVIRONMENTAL ENG-R. BALES				
	05397	321.01		321.01	
	18295			118662.89	118662.89

	18296			145705.81	145705.81
	18301			124225.82	124225.82
	18365	431052.69	60759.15	454644.00	84350.46
	21101			359232.01	359232.01
	21205	3023.11	3136.91	1705280.00	1705393.80
	21241	175912.27	77363.28	407635.00	309086.01
	22470	119987.69	120227.45	238436.00	238675.76
	22475	3977.85	3987.40	122500.00	122509.55
	22480	179556.01	77233.98	304000.00	201677.97
	36470	77515.36	77860.10	77515.36	77860.10
	58143			20308.46	20308.46
	69085	197851.09		197851.09	
	69851				
	75554	(46.07)	(46.39)	(46.07)	(46.39)
449214/RR	RESEARCH-SNRI-ENVIR ENG-R. RICE				
	22471	164400.48	26817.44	206005.23	68422.19
449214/WR	RESEARCH-SNRI-ENVIRO ENGINEERING W ROGGE				
	21282	2010.40	2010.40	3940.94	3940.94
449216/YC	RESEARCH-SNRI-MECHANICAL ENG-Y CHEN				
	36470	56494.49	12724.17	56494.49	12724.17
449224/RB	RSRCH-SNRI-ENV ENG-COST SHARE-BALES				
449253/AB	RES-SNRI-EARTH SYSTEMS SCIENCES-A BERHE				
	21241	10023.61	3561.36	14039.00	7576.75
449253/CF	RES-SNRI-EARTH SYSTEMS SCIENCES-C FRANK				
	21267	1314110.41	260527.12	1633447.00	579863.71
449253/JS	RES-SNRI-EARTH SYSTEMS SCIENCES J SEXTON				
449253/LK	RESEARCH-SNRI-EARTH SYSTEMS SCIENCES				
	22410	65569.79	60971.95	1087541.06	1082943.22
	26724			19128.45	19128.45
449253/NM	RES-SNRI-EARTH SYSTEMS SCIENCES-N MILLER				
	18307			19350.04	19350.04
	21246			46919.80	46919.80
	23206			72210.31	72210.31
	69085	203.68		203.68	
449253/PO	RESEARCH-SNRI-EARTH SYSTEMS-P. O'DAY				
	21221	85.26	85.26	299999.52	299999.52
	22416			691296.46	691296.46
	22426	200000.00	83148.44	200000.00	83148.44
	58123			42327.00	42327.00
	58139	286148.41	142985.78	361535.00	218372.37
449253/SH	RESEARCH-SNRI-EARTH SYSTEMS - S. HART				
	18366	140540.29	71895.52	140907.00	72262.23
	21101			41674.46	41674.46
	21228			66531.12	66531.12
	21241	49001.67	32408.52	140208.00	123614.85
	57097	80887.46	35210.12	92643.00	46965.66
	58149	2221.26	2221.26	5392.79	5392.79
449253/TG	RES-SNRI-EARTH SYSS SCIENCES T-GHEZZEHEI				
	22484	357300.00	14289.84	357300.00	14289.84
449315/KH	RESEARCH-SNRI-ANTHROPOLOGY-K. HULL				
	25653			89261.51	89261.51
	25655	2377.65	2281.20	34569.00	34472.55
	25657	74015.01	14070.02	74015.01	14070.02
449321/AJ	RESEARCH-SNRI-PSYCHOLOGY-A. JOYCE				
	58145	28713.02	30163.07	50000.00	51450.05
	58148	15257.83	15252.42	36476.08	36470.67
	58608	25391.00	25169.36	25391.00	25169.36
	58616	49000.00	36122.81	49000.00	36122.81
629001/DH	PUBLIC SERVICE-SNRI-NPI-HOSLEY				
	25652			154163.22	154163.22
	40039	977.49		977.49	

	69262	9082.55		9082.55	
629001/NP	PUB SERVICE-SNRI-NATL PARK INST-HOSLEY				
	25652			(8657.44)	(8657.44)
629001/RB	PUBLIC SERVICE-SNRI-R. BALES				
	69851	25000.00	4031.07	25000.00	4031.07
629001/Y3	PUBLIC SRVC-SNRI-NATL PARK INST-HOSLEY				
	25652			64.08	64.08
629213/ER	PUBLIC SERV-SNRI-COMP SCI & ENG-ROLLAND				
	40074				
	58117			13826.86	13826.86
789214/JC	FINANCIAL AID-SNRI-ENV ENG-CAMPBELL				
	37658	0.38	26589.20	0.38	26589.20
789214/MC	FINANCIAL AID-SNRI-ENV ENG-CONKLIN				
	18306			13864.00	13864.00
	18308		12294.00	12240.00	24534.00
789214/QG	FIN AID-SNRI-ENVIRONL ENG-Q GUO				
	24922			8541.08	8541.08
789214/RB	FIN AID-SNRI-ENVIRONMENTAL ENG-R BALES				
	21241			17488.00	17488.00
789253/SH	FIN AID-SNRI-LIFE/ENVIRON SCI-HART				
	21228			25650.00	25650.00
Totals		$9,952,398.36	$3,547,094.72	$21,929,366.57	$15,524,062.93

ATTACHMENT G

Grant proposals submitted through Sponsored Projects Office in FY 16/17

Proposals prepared 59

Proposals submitted 49

Proposal funded 13

Total value of newly funded proposals in FY 16/17 *$1,897,110.00*

Prop No.	PI	Project Name	Sponsor
17-0447	BLOIS	Blois_NSF Career [GEO]_7.21.17	5400 - NATIONAL SCIENCE FOUNDATION - NSF
17-0414	Beutel	2017_beutel_waterqualityassessmentofHodgesReservoir	VGDP - SAN DIEGO COUNTY WATER AUTHORITY
17-0393	Jenkins	Yosemite Wilderness - John Muir Trail	4180 - NATIONAL PARK SERVICE - NPS
17-0376	O'DAY	ODAY_EPA2017	3900 - ENVIRONMENTAL PROTECTION AGENCY - EPA
17-0372	CONKLIN	Critical Baseline Monitoring of Water Quality for Hemlock Forest Restoration Project	6522 - CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE FIRE
17-0369	FRANK	CFRANK UCB2017	6761 - UC BERKELEY
17-0361	GHEZZEHEI	U of Miami Subaward_NSF PIRE_Ghezzehei_4.14.17	9184 - UNIVERSITY OF MIAMI
17-0351	O'DAY	Human models of the particulate-induced inflammatory/antioxidant axis in aging	9272 - UNIVERSITY OF SOUTHERN CALIFORNIA - USC
17-0349	WESTERLING	Drought Early warning for California	6778 - UC SAN DIEGO
17-0336	GHEZZEHEI	Community perception of water and food security	9281 - UNIVERSITY OF MINNESOTA
17-0333	Safeeq	Developing climate resilient specialty cropping systems tailored to growers' needs	6774 - UC AGRICULTURE AND NATURAL RESOURCES - UCA
17-0321	CONKLIN	MConklin-NSF_INFEWS_03-06-17-SP-17-0321	5400 - NATIONAL SCIENCE FOUNDATION - NSF
17-0320	CAMPBELL	E.Campbell INFEWS due 03.06.2017	5400 - NATIONAL SCIENCE FOUNDATION - NSF
17-0316	GUO	http://www.lpi.usra.edu/planetary_news/2016/11/07/nasa-earth-and-space-science-fellowship-nessf-program-3/	5136 - NASA HEADQUARTERS
17-0299	GHEZZEHEI	Application of Hydrochar as a potential soil conditioner in Almond Orchards	8025 - ALMOND BOARD OF CALIFORNIA
17-0282	WESTERLING	California Nevada Applications Program (CNAP)	6778 - UC SAN DIEGO
17-0276	CAMPBELL	New Fusion of NASA Remote Sensing Data to Validate Terrestrial Carbon Cycle Models using Measured Fluxes of Carbonyl Sulfide	5106 - NASA AMES RESEARCH CENTER
17-0253	WESTERLING	Climate Adaptation and Resiliency Assessment	6778 - UC SAN DIEGO
17-0226	SUN	Sun_NSF NRT_LOI_12.09.16	5400 - NATIONAL SCIENCE FOUNDATION - NSF
17-0213	BALES	NSF SSCZO Beyond the Brink	5400 - NATIONAL SCIENCE FOUNDATION - NSF
17-0190	HULL	KHull_NPS2016	4180 - NATIONAL PARK SERVICE - NPS
17-0184	O'DAY	Collaborative Research: Mineral surface reactivity, energetics, and adsorption of phosphorus as a critical nutrient	5400 - NATIONAL SCIENCE FOUNDATION - NSF
17-0169	CAMPBELL	Energy Canals: Discovering the Food-Energy-Water Synergies of Photovoltaic	5400 - NATIONAL SCIENCE FOUNDATION - NSF

		Covered Aqueducts	
17-0155	BERHE	Collaborative Research: FRA: Integrating Major North American Forest Cover Types with MacroSystem-scale Canopy Ecohydrological Processes	9261 - UNIVERSITY OF DELAWARE
17-0151	Safeeq	Incorporating time variable land cover into a large scale hydrologic model	8123 - ARIZONA STATE UNIVERSITY/TEMPE
17-0143	Bernacchi	The Family Waters	5280 - NFAH HUMANITIES, NATIONAL ENDOWMENT FOR
17-0140	O'DAY	Assessment of processes and factors influencing mercury methylation in managed wetlands within the San Francisco Bay-Delta using a kinetic-thermodynamic biogeochemical model	6778 - UC SAN DIEGO
17-0128	TRAINA	Oilfield Water Chemisty	VB76 - CALIFORNIA STATE UNIVERSITY, FRESNO
17-0122	BALES	Assessment of Climate Change Effects and Impacts on the Hydrology of Southern Sierra Nevada Basins	VG6Q - SEQUOIA RIVERLANDS TRUST
17-0094	BALES	Waste to Wisdom II: Development of a Woody Biomass Feedstock Supply Chain for Bioenergy and Bioproducts in the Southwestern U.S	4672 - CALIFORNIA STATE UNIVERSITY, HUMBOLDT STATE SPONSORED - CSU
17-0069	Safeeq	Monitoring and Evaluating Hydrologic Impacts of Forest Restoration in the Headwaters of American River Basin	F972 - CALIFORNIA WILDLIFE CONSERVATION BOARD - WC
17-0015	Pathak	Climate Change and Public Response to Water Variability	6763 - UC DAVIS
17-0011	WESTERLING	Climate and Health Interdisciplinary Research Program	6764 - UNIVERSITY OF CALIFORNIA, LOS ANGELES - UCLA
16-0449	O'DAY	Modeling Methylmercury and salinity from wetland tributaries to the Delta	6530 - CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE -
16-0413	JOYCE	Pistachio leaffoot	FA2C - CALIFORNIA PISTACHIO RESEARCH BOARD
16-0412	FRANK	CFrank_NSF2016	9293 - UNIVERSITY OF PENNSYLVANIA
16-0395	JOYCE	Behavior of the Leaffoted bug	8025 - ALMOND BOARD OF CALIFORNIA
16-0393	Safeeq	MSafeeq_NatureConservancy2016	7262 - NATURE CONSERVANCY
16-0392	JOYCE	Testing West Nile_Mosquito	F218 - MOSQUITO RESEARCH FOUNDATION - MRF
16-0388	CAMPBELL	ECampbell-UKentucky (NASA)-ROSES-06-01-16	9267 - UNIVERSITY OF KENTUCKY/UNIVERSITY OF KENTUC FOUNDATION
16-0363		Davis-DWR Alternative Soil Management	6550 - CALIFORNIA DEPARTMENT OF WATER RESOURCES
16-0360	BALES	Bales_TomKat UC_05.02.16	6771 - UC SANTA BARBARA
16-0359	CONKLIN	Conklin_Reclamation Western Watershed_3.30.16	4123 - BUREAU OF RECLAMATION - USDI
16-0358	BALES	Bales_CA LCC_3.28.16	V8C4 - CALIFORNIA LANDSCAPE CONSERVATION COOPERA
16-0355	BALES	RBales_USDA2012	0300 - US DEPARTMENT OF AGRICULTURE FOREST SERVIC
16-0352	BERHE	ABerhe_DOE2016	9277 - UNIVERSITY OF WISCONSIN-MADISON
16-0349	BLOIS	Blois_NSF Career [BIO]_7.20.16	5400 - NATIONAL SCIENCE FOUNDATION - NSF
16-0343	CAMPBELL	Campbell_NSFINFEWS3.22.16	5400 - NATIONAL SCIENCE FOUNDATION - NSF
16-0336	Safeeq	Bales Safeeq_SSIWRM_Deadline TBD	6550 - CALIFORNIA DEPARTMENT OF WATER RESOURCES
16-0331	SUN	Sun et al_AFRI ELI_3.24.16	0450 - NATIONAL INSTITUTE FOR FOOD AND AGRICULTUR
16-0311	CONKLIN	Safeeq et al_NSF INFEWS_3.22.16	5400 - NATIONAL SCIENCE FOUNDATION - NSF

16-0303	CONKLIN	M.Conklin_NASA 2016	5101 - NASA/MISCELLANEOUS CENTERS
16-0300	WESTERLING	ALWesterling_USDAFS	0300 - US DEPARTMENT OF AGRICULTURE FOREST SERVIC
16-0295	GUO	Q.GUO	5101 - NASA/MISCELLANEOUS CENTERS
16-0274	O'DAY	PODAY_DOE_JAN2016	5099 - DEPARTMENT OF ENERGY/MISCELLANEOUS OFFICE
16-0271	GHEZZEHEI	Peat Carbon Dynamics	5090 - DEPARTMENT OF ENERGY WASHINGTON, D.C. - DC
16-0257	ROGGE	W.Rogge_UCSC/NSF2016	6769 - UC SANTA CRUZ
16-0244	CONKLIN	ConklinNSF MRI	5400 - NATIONAL SCIENCE FOUNDATION - NSF
16-0185	O'DAY	PODAY_NSF2015_2	5400 - NATIONAL SCIENCE FOUNDATION - NSF

Attachment E
Gifts Administered through Development and Alumni Relations

	Organization Name	Title	First Name	Last Name	Gift Amount
Climate Feedback		Mr.	Angus	Rose	$40.00
Climate Feedback	FirstGiving				$1,018.42
Climate Feedback	FirstGiving				$41.34
Climate Feedback		Mr.	Angus	Rose	$40.00
SNRI Fund		Mr.	Gary	Kremen	$3,100.00
Climate Feedback	FirstGiving				$103.30
Climate Feedback	FirstGiving				$231.18
SNRIFund		Dr.	Stephen	Hart	$50.00
SNRI Fund		Dr.	Karen	Merritt	$500.00
Climate Feedback		Mr.	Curt	Newton	$50.00
Climate Feedback		Ms.	Britta	Voss	$25.00
Climate Feedback	FirstGiving				$73.54
Climate Feedback		Dr.	Michael	Henehan	$20.00
Climate Feedback		Ms.	Annie	Kia	$40.00
Climate Feedback		Mr.	David	Landskov	$15.00
Climate Feedback		Mr.	Ville	Lahde	$50.00
Climate Feedback		Mr.	Samuel	Slanina	$20.00
Climate Feedback		Ms.	Lucy	Fellowes	$25.00
Climate Feedback			Anonymous		$100.00
Climate Feedback			Anonymous		$50.00
Climate Feedback		Dr.	Stefan	Rahmstorf	$700.00
SNRI Fund	Wells Fargo Foundation				$500.00
Climate Feedback	United Way of Central New Mexico				$200.00
Climate Feedback		Mr.	Dan	Sandberg	$10.00
Climate Feedback	FirstGiving				$77.84
climate Feedback			Anonymous		$100.00
Climate Feedback		Mr.	Geoffrey	Pounder	$25.00
SNRIFund	RMC Water and Environment				$500.00
Climate Feedback		Mr.	Dan	Sandberg	$10.00
Climate Feedback		Mr.	Dan	Sandberg	$10.00
UCTV Sustainable California		Dr.	Herbert	Blossom	$5,000.00
Climate Feedback		Mr.	Dan	Sandberg	$10.00
Climate Feedback		Mr.	David	Slater	$20.00
Climate Feedback		Dr.	Leonard	Burtscher	$50.00
Climate Feedback		Dr.	Wendy	Dillenschneider	$25.00
Climate Feedback		Dr.	Stefan	Rahmstorf	$100.00
Climate Feedback		Mr.	Dale	Whitton	$30.00
Climate Feedback			Anonymous		$25.00
Climate Feedback			Anonymous		$50.00
Climate Feedback			Anonymous		$10.00
Climate Feedback		Mr.	Dan	Sandberg	$10.00
Climate Feedback		Mr.	David	Slater	$20.00
Climate Feedback		Mr.	Dan	Sandberg	$10.00
Climate Feedback		Dr.	Darrell	Kaufman	$100.00
					$13,185.62

Attachment G SNRI research symposium

Sierra Nevada Research Institute

Research Symposium

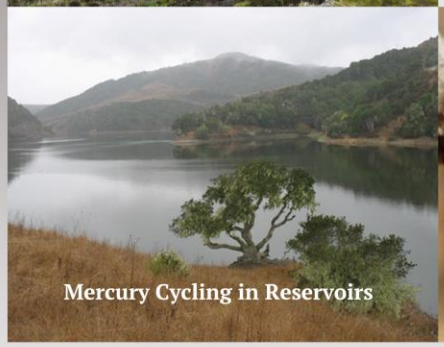
UC Merced Research Week 2017

For more information contact: snrirequests@ucmerced.edu

SNRI Research : From the High Sierra to the San Joaquin Valley


Native Plants and Climate Change


Climate Change and Snow


Mercury Cycling in Reservoirs


San Joaquin Valley Entomology

Monday, March 6, 2017 12:30 pm – 3:00 pm

Kolligian Library - Room 232

1:00 pm Introductions and Overview - Leroy Westerling, Associate Professor

1:10 pm Climate Change and Snow: Future Scenarios and Historical Analogs
Mohammad Safeeq, Project Scientist and Assistant Adjunct Professor

1:30 pm Entomology in the San Joaquin Valley - Andrea Joyce, Assistant Professor

1:50 pm Mercury Cycling in California Reservoirs - Marc Beutel,Associate Professor

2:10 pm What is the Capacity of California Plants to Weather Climate Change?
Jay Sexton, Assistant Professor

2:30 pm Moderated Discussion

This symposium is supported by a gift from Woddard & Curran

Food and Refreshments Provided

UC Merced University of California