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Sierra Nevada Research Institute UNIVERSITY OF CALIFORNIA, MERCED 5200 North Lake Road, SRE 109 MERCED, CALIFORNIA 95343

Memorandum

Date: October 16, 2019

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

From: Roger Bales, Director, Sierra Nevada Research Institute

With this letter we submit the Sierra Nevada Research Institute ORU Annual Report for 2018/19. Most of the data and the information in this report were provided by SNRI members and staff, UC Merced's business 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. Success for SNRI is dependent on successful grant awards and excellent grant management. A primary goal this year for SNRI leadership is to fill key administrative positions and the research administrator positions to fully support the SNRI research community.

The climate crisis that we are experiencing is creating research and information demands on the SNRI researchers from all sectors: leaders in government, news agencies, business and citizens. Throughout California, scientists and researchers from this ORU continue to build the reputation of this newest research university of the 21<sup>st</sup> century.

There are currently 43 faculty members in SNRI and 31 professional researchers engaged in SNRI related research at UC Merced and they are operating with more than 30 million dollars in grant support.

#### Sierra Nevada Research Institute University of California, Merced

#### Organized Research Unit (ORU) Annual Report 2018/19

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

The 2018/19 academic year has been a challenging and successful year for the Sierra Nevada Research Institute. The mission of the SNRI faculty and researchers is to develop new knowledge that will sustain the natural resources and promote social well-being in the Sierra Nevada and Central Valley region which continues to be critical for California and the West.

SNRI members, their research groups and students continue to make discoveries that contribute to the sustainability of the San Joaquin Valley region, the state and, global communities. Research programs include renewable energy, decarbonizing the economy, more-sustainable ecosystem management and, other climate solutions. As California experiences extremes in climate, from drought and flood to extreme wildfires, SNRI researchers are regularly *sought out for their research and insights by news organizations, legislators, State agencies, decision-makers, agricultural leaders, environmental organizations and NGO's*.

SNRI researchers submitted 44 grant proposals and 24 grant proposals were funded for a total value of \$4,066,717.00 in the 18/19 year. The total value of grants currently administered by the SNRI administrative office is \$30,298,613.00. We continue to advocate for an increase in the number of administrative support staff for the SNRI office.

The February 2019 SNRI Research Symposium was a success with presentations by Assistant Professor Rebecca Ryals, Assistant Professor, Colleen Naughton and Christine Ma, one of the newest Post Doctoral members of SNRI. Assistant Professor Emily Moran was awarded a grant to host a research symposium on campus about Climate Change Impacts in the Southern Sierra. This two-day conference in September featured almost 40 presentations and was well attended.

New films produced about SNRI this year include a new Watershed film by Director/Producer Jim Thebaut. "Beyond the Brink" and the "Watershed" film continue to be shown around California and both films are regularly well received. We produced a 6-minute film about SNRI with Websedge and this film will be shown on a loop at this year's AGU conference in San Francisco. After that showing, the film will be posted on the SNRI website as well as the UCTV "Sustainable California" channel.

In May 2019 Professor Asmeret Asefaw-Berhe was a featured speaker for the 2019 TED Conference. Bill Gates tweeted a link to the video of her talk about soil health which was released in September. Her video has already received over 1million views!

SNRI membership continues to grow with 43 faculty members and 31 professional researchers engaged in SNRI related research at UC Merced.

#### 2.) Names of persons serving on the SNRI Advisory Committee.

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

External: Andi Heard, Resources Manager, Sequoia/Kings Canyon National Parks

Ex-Officio: Roger Bales, Armando Quintero

#### **3.) Dates of Committee meetings:**

SNRI Advisory Committee February 27, 2019

#### 4.) Summary of key Advisory Committee recommendations.

- 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.
- Develop an SNRI presence and program as a part of the Sustainability group in the new Sustainability, Research & Engineering Building
- o Recruit additional new faculty and expand engagement with sustainability related research
- Identify new members for the SNRI Advisory Committee
- Reactivate the SNRI Directors Council
- o Develop new Symposiums/Seminar Programs/Speaker events for SNRI with Faculty which appeals to the academic, agency staff, elected and the public
- Develop staffing support to foster a more balanced workload for the SNRI- ORU administrative staff. Develop up-to-date position descriptions
- o Strengthen Water/Soil/Ag connections in research
- Articulate the SNRI Base Internal and External
- Seek additional Graduate student funding

#### 5.) Copy of Advisory Committee report(s), minutes.

See Attachment A: (pages 18-19)

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

Faculty		
Ardell, David	Fortier, Marie-Odile	Medellin-Azura, Josue
Bales, Roger	Ghezzehei, Teamrat A.	Moran, Emily
Beman, Michael	Guo, Qinghua	Nobile, Clarissa
Berhe, Asmeret Asefaw	Harmon, Tom	O'Day, Peggy
Beutel, Marc	Hart, Stephen	Rice, Robert
Blois, Jessica	Hestir, Erin	Rogge, Wolfgang
Campbell, Elliott	Hull, Kathleen	Ryals, Rebecca
Chen, Yang Quan	Innes, Robert	Safeeq, Mohammad
Chen, Yihsu	Jenkins, Jeffery	Sexton, Jason
Conklin, Martha	Joyce, Andrea	Traina, Samuel
Dawson, Michael	Keske, Catherine	Westerling, Le Roy
Edwards, Daniel	Lercari, Nicola	Winston, Roland
Diaz, Gerardo	Leppert, Valerie	Viers, Joshua
Frank, Carolin	Matlock, Teenie	

#### **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.

The 65 names on the list reflect some of the many students and postdoctoral scholars who work with researchers and are funded for varying periods of work from grants managed by SNRI for SNRI faculty in this fiscal year. Some students are paid for with state funds for administrative support work. Available database information does not allow for a complete report.

Types of appointments in this ORU	Number of appointments
Students	32
Graduate students	9
Post Doctoral Scholars	14
Assistant Project Scientist (multiple locations)	3
Professional Researcher	1
Staff Research Associates	3
Associate Specialist	1
Fiscal Year Researcher	1
Visiting Scholar	1

	<u>Name</u>	<u>Title</u>
•	Turner,Leigh Alexis Bernacchi	ASSOC SPECIALIST
•	Sharma,Shankar	ASST PROJ SCIENTIST-FY
•	Trujillo Gomez,Ernesto	ASST PROJ SCIENTIST-FY
•	Hartsough, Peter	ASST PROJ SCIENTIST-FY MLA
•	Safeeq,Mohammad	ASST RES-FY-B/E/E
•	Carper,Dana Lynn	GSR-NO REM
•	Guillem, Anais	GSR-NO REM
•	Portillo-Silva, Catherine	GSR-NO REM
•	Wu,Dean Juan	GSR-NO REM
•	Barnes, Morgan Elizabeth	GSR-PARTIAL FEE REM
•	Booth,Lorenzo Ade	GSR-PARTIAL FEE REM
•	Xu,Qingqing	GSR-PARTIAL FEE REM
•	Zhao, Tiebiao	GSR-PARTIAL FEE REM
•	Guo, Yiping	GSR-PARTIAL FEE REM
•	Ma,Qin	INTRM POSTDOC SCHOLAR-EMPLOYEE
•	Taylor, Robert	JUNIOR SPECIALIST-MLA
•	Bart,Ryan Roger	POSTDOC-EMPLOYEE
•	Heeren, Alexander John	POSTDOC-EMPLOYEE
•	Sohrabi, Mohammadmehdi	POSTDOC-EMPLOYEE
•	Yan,Jing	POSTDOC-EMPLOYEE
•	Whipple, Alison Agnew	POSTDOC-EMPLOYEE
•	Kniffin,Maribeth Lynn	POSTDOC-EMPLOYEE
•	Cui,Guotao	POSTDOC-EMPLOYEE
•	Guo, Weichao	POSTDOC-EMPLOYEE
•	Yang, Yang	POSTDOC-EMPLOYEE
•	Ramalho Da Silva,Iolanda	POSTDOC-EMPLOYEE
•	Singh,Chandan Kumar	POSTDOC-EMPLOYEE
•	Ackerer, Julien Claude	POSTDOC-EMPLOYEE
•	Pelak III,Norman Frank	POSTDOC-EMPLOYEE

	<u>Name</u>	<u>Title</u>
•	Guo,Qinghua	RES-FY
•	Gilmore, Michelle Elizabeth	SRA 2 Staff Research Associate
•	Stacy,Erin Michele	SRA 3
•	Womble,Patrick	SRA 3
•	Elias,Oscar Antonio	STDT 1
•	Flores, Valeria Josephine	STDT 1
•	Glasser,Susan Marley	STDT 1
•	Leiske, Chad Morales	STDT 1
•	Piña, Antonio De Jesus	STDT 1
•	Torres,Ryan Jacob	STDT 1
•	Tran, Christian Anthony	STDT 1
•	Vazquez,Samantha Yadira	STDT 1
•	Schep,Willem K	STDT 1
•	Mcdermott,Spencer Riley	STDT 1
•	Mercado, Jesus Abrahan	STDT 1
•	Rodal Morales, Naivy Dennise	STDT 1
•	Arceo Madriz, Mariela D	STDT 1
•	Garcia,Luis Eduardo	STDT 1
•	Klotz,Paige Courtney	STDT 1
•	Merugumala, Preethi	STDT 1
•	Barahona Membreno, Timothy	STDT 1
•	Salinas Aguilar, Andrea B	STDT 1
•	Ahmed, Joshua Raihan	STDT 2
•	Castro, Madeline Kaye	STDT 2
•	Wilson, Destini Mariah Ashley	STDT 2
•	Perez Rojas, Yulissa T	STDT 2
•	Pomephimkham,Mimi	STDT 2
•	Siaotong, Athena Beverly	STDT 2
•	Singh, Tarandeep	STDT 2

	<u>Name</u>	<u>Title</u>
•	Bagshaw,Sophia B	STDT 3
•	Fraga Hernandez,Joaquin	STDT 3
•	Ojeda, Nancy Veronica	STDT 3
•	Teurn,Jadie Lynn	STDT 3
•	Kraintz, Wesley Paul Campbell	STDT 3
•	Currier, Christopher Walker	STDT 4
•	Yinger, Zachary Garrett	STDT 4
•	Hudson,Robert John Munger	Visiting Scholar

Names of undergraduate and graduate students and postdoctoral scholars directly contributing to the ORU's scholarly work through assistantships, fellowships, or traineeships. (this is only a partial list and is limited by available database information)

Postdoctoral Scholar	Meng, Xiande	Students
Bart,Ryan Roger	Patrick Womble	Barahona Membreno, Timothy
Heeren, Alexander John	Students	Salinas Aguilar, Andrea B
Sohrabi, Mohammadmehdi	Elias,Oscar Antonio	Ahmed, Joshua Raihan
Yan,Jing	Flores, Valeria Josephine	Castro, Madeline Kaye
Whipple, Alison Agnew	Glasser,Susan Marley	Wilson, Destini M Ashley
Kniffin,Maribeth Lynn	Leiske,Chad Morales	Perez Rojas, Yulissa T
Cui,Guotao	Piña, Antonio De Jesus	Pomephimkham, Mimi
Guo,Weichao	Torres,Ryan Jacob	Siaotong, Athena Beverly
Yang, Yang	Tran, Christian Anthony	Singh, Tarandeep
Ramalho Da Silva, Iolanda	Vazquez,Samantha Yadira	Bagshaw,Sophia B
Singh,Chandan Kumar	Schep,Willem K	Fraga Hernandez,Joaquin
Ackerer,Julien Claude	Mcdermott,Spencer Riley	Ojeda, Nancy Veronica
Pelak III,Norman Frank	Mercado, Jesus Abrahan	Teurn,Jadie Lynn
Ma, Qin	Rodal Morales, Naivy	Kraintz, Wesley Paul
Staff Researchers	Dennise	Campbell
Stacy, Erin	Arceo Madriz, Mariela D	Currier, Christopher
Milostan, Jeanne	Garcia,Luis Eduardo	Walker
Bernacchi, Leigh	Klotz,Paige Courtney	Yinger,Zachary Garret
Gilmore, Michelle	Merugumala,Preethi	·

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

Note: Not all faculty provided information for this section, and we were not able to verify the accuracy of all entries.

Ardell, David Andrea Collins-Hed UC Merced- PhD candidate Fateme Hadi Nezhad UC Merced - PhD candidate Rhondene Wint UC Merced - PhD candidate UC Merced - PhD candidate
Fateme Hadi Nezhad UC Merced – PhD candidate
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
Carlos Oroza UC Berkeley
Ziran Zhag UC Berkeley
Zeshi Zheng UC Berkeley
Hunsaker, Carolyn USDA
Anthony O'Geen CZO/USFS
Peter Hartsough CZO/UC Davis
Naomi Tague CZO/UC Davis
Cliff Reibe CZO/UC Santa Barbara
Michael Goulden CZO/U Wyoming
CZO Collaborators ~30
Other UC Water
Collaborators ~30
Sustainable Growth
Council Ctr Collaborators ~30
Beman, Michael Ariadna Cairo UC Merced – PhD candidate
Sonia Vargas (new) UC Merced – PhD candidate
Jesse Wilson UC Merced – PhD candidate
Joaquin Fraga-Hernandez UC Merced – PhD candidate
Berhe, Asmeret CZO Collaborator (See Bales)
Craig Rassmussen University of Arizona
Dale Johnson University of Nevada, Reno
Carolyn Hunsaker US Forest Service
Caroline Masiello Rice University
Emma McCorkle UC Merced – PhD candidate
Berhe, Asmeret Kimber Moreland UC Merced – PhD candidate
Robert Graham UC Riverside
Carolina Boix Fayos (CEBAS), Spain
Morgan Barnes UC Merced - PhD candidate

Rebecca Lever UC Merced - PhD candidate

Dale Johnson UNR

Jonathan Sanderman CSIRO Adelaide

Markus Kleber Oregon State University

Johan Six UC Davis

Chelsea Arnold

Manisha Dolui

Lixia Jin

UC Merced - PhD candidate

Beutel, Marc Louis Amegbletor UC Merced - PhD candidate

Melissa Conn

UC Merced - PhD candidate

Byran Fuhrman

UC Merced - PhD candidate

Blois, Jessica Behrensmeyer, Kay Smithsonian Institution

Eronen, Jussi University of Helsinki 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

McGuire, Jenny

Mychajliw, Alexis

Polly, P. David

Williams, Jack

University of Maine
Georgia Tech
Stanford University
Indiana University
UW Madison

Williams, Jack UW Madison Gio Rapacciuolo UC Merced – 1

Gio Rapacciuolo

Danaan DeNeve

Robert Boria

Nate Fox

UC Merced – PhD candidate

Campbell, Elliott James Stinecipher UC Merced – PhD candidate

Chen, Yihsu Not available

Chen, YangQuan	Huifang Dou Brandon Stark Brendan Smith Tiebiao Zhao Duval Johnson Guoxiang Zhang Haoyu Niu Jose Alcala	Lecturer UC Merced – PhD candidate
Conklin, Martha	UCWater collaborators CZO collaborators John Battles Maggie Kelly Steve Stephens Lynn Huntsinger Stefano Casitrati Melissa Thaw	See Bales) (See Bales) UC Berkeley/SNAMP UC Berkeley/SNAMP UC Berkeley/SNAMP UC Berkeley/SNAMP UC Berkeley/SNAMP UC Merced – PhD candidate UC Merced – PhD candidate
Dawson, Michael	Bob Wayne Rasmus Nielsen Beth Shapiro Jeff Wall Karly Higgins Baily Carlson Nattanon Wuthituntisil	UCLA UCB UCSC UCSF UC Merced – PhD candidate UC Merced – PhD candidate UC Merced – PhD candidate
Diaz, Gerardo	Andres Munoz Viacheslav Plotnikov Sai Thani Kiran Hota Hector Gomez Genesis Higueros Jose Rbalcaba-Cruz Juan De Dios Mariscal Uriel Paez Reyes	UC Merced – PhD candidate UC Merced - undergrad UC Merced - undergrad UC Merced – undergrad UC Merced – undergrad UC Merced – undergrad
Edwards, Daniel	Kinsey Brock Megha Suswaram Laura Van Vranken Indiana Madden Kaithlen Zen Pacheco Robert Degen Anthony Javiya	UC Merced – PhD candidate UC Merced – PhD candidate UC Merced – PhD candidate UC Merced – undergrad UC Merced - undergrad UC Merced – undergrad UC Merced – undergrad UC Merced – undergrad
Frank, Carolin	Albalasmeh, Ammar Jackie Shay Jame Kupihea	Jordan University of Science and Technology UC Merced – PhD candidate UC Merced – PhD candidate

Jorge Montiel UC Merced – PhD candidate
Berli, Markus Desert Research Institute, Nevada

Carminati, Andrea University of Gottingen

Andrea Salinas Undergrad

Dijkema, Jelle Wageningen University and Desert Research

Institute

Ghezzehei, Teamrat 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

Jessica Alvarez

Samuel Araya

Toshiyuki Bandai

Touyeee Thao

Federal University of Sao Paolo

UC Merced – PhD candidate

Guop, Quinghua SNAMP

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 Instituto Argentino de Oceanografía &

Universidad Nacional del Sur, Argentina

Pinto, Adrian University of Costa Rica

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

Harmon, Tom Schwendenmann, University of Aukland, New Zealand

Luitgard

Picollo, M. Cintia

Scordo, Facundo Universidad Nacional del Sur, Argentina

	Velez, Maria Wemple, Beverley Zelikova, Jane Zilio, Mariana Henry Pai Diganta Adhikari Irvin Arroyo Angel Fernandez Bou	University of Regina, Canada University of Vermont University of Wyoming Instituto de Investigaciones Económicas y Sociales del Sur UC Merced – PhD candidate
Hart, Stephen	James Kupihea Morgan Barnes Nicholas Dove Susan Soltau Emma Aronson Cliff Riebe Mengqiang Zhu Ben Sullivan	UC Merced – PhD candidate UC Merced - PhD candidate UC Merced - PhD candidate UC Merced - MS candidate UC Riverside University of Wyoming University of Wyoming University of Nevada Reno
Hestir, Erin	Christiana Ade Erik Bolch Brandon Genco Brittany Lopez Barreto	UC Merced PhD– candidate UC Merced PhD– candidate UC Merced PhD– candidate UC Merced PhD– candidate
Hull, Kathleen	Adam Fleenor	UC Merced PhD- candidate
Innes, Robert	not available	
Jenkins, Jeffrey	Madeline Brown Dana Swarth Jeremy Neil Felber Jair Bermudez	UC Merced PhD– candidate UC Merced PhD– candidate UC Merced PhD– candidate UC Merced PhD– candidate
Joyce, Andrea	Not available	
Keske, Catherine	Elizabeth Holcomb	UC Merced PhD- candidate
Lecari, Nicola	not available	
Leppert, Valerie	Henry Forman Dra. Monserrat Bizarro-	Davis School of Gerontology, USC, US
Leppert, Valerie	Sordo Annaliza Torres	Materials Institute, UNAM, Mexico  UC Merced PhD – candidate
		OC IVICIOCA FIID – Calididate

Matlock, Tennie	Not available	
Medellin-Azura, Josue	Jorge Valero	UC Merced PhD- candidate
Moran, Emily	Mengjun Shu Jeffrey Lauder Dean Wu	UC Merced PhD– candidate UC Merced PhD– candidate UC Merced PhD– candidate
Nobile, Clarissa	Diana Rodriguez Ashley Valle Arevalo Craig Ennis Thaddeus Seher Akshay Paropkari Austin Perry Priyanka Bapat Sabah Ul-Hasaon	UC Merced PhD– candidate
O'Day, Peggy	Stefanie Helmrich Nigel Quinn Paul Aronstein Rolf Mehlhorn Julie Collignan	UC Merced PhD– candidate LBNL UC Merced PhD– candidate LBNL LBNL
Rice, Robert	Butler, Leslie Glaser, Steve Horwath, William Zhang, Ziran Steven Glazier	UC Davis University of California Berkeley University of California Davis UC Berkeley UC Berkeley
Rogge, Woflgang	Not available	
Sexton, Jason	Blackman, Ben Carscadden, Kelly Hirst, Megan Hoffmann, Ary Slatyer, Rachel Dannise Ruiz Ramos Molly Stephens Daniel Toews Brandon Hendrickson Jacqueline Shay Lillie Pennington Jorge Armando Montiel Molina	University of Virginia University of Toronto University of Melbourne University of Melbourne University of Melbourne UC Merced PhD— candidate

	Sunshine Lopez Gabriel Zepeda Mimi Pomephimkam Chungtug Asa Francisco	UC Merced PhD- candidate UC Merced PhD- candidate UC Merced PhD- candidate UC Merced PhD- candidate
Traina, Samuel	None	
Westerling, Anthony	Xu Qingqing	UC Merced – PhD candidate
	Samrajya Thapa	UC Merced – PhD candidate
	Sam Jonathan	UC Merced – PhD candidate
Winston, Roland	Constance Chang-Hasnain	UC Berkeley
	Pieter Stroeve	UC Davis
	Umesh Mishra	UCSB
	Alfredo Martinez-Morales	UC Riverside
	Yang Yang	UCLA
	Matthew Law	UC Irvine
	Michael Isaacson	UCSC
	Steve DenBaars	UCSB
	Nael El-Farra	UC Davis
	Ali Javey	UC Berkeley
	Sungho Jin	UC San Diego
	Zhaowei Liu	UC San Diego
	Patrick Mantey	UCSC
	Adam Moule	UC Davis
	Sayeff Salahuddin	UC Berkeley
	James Speck	UCSB
	Daniel Sperling	UC Davis
	Sadrul Ula	UC Riverside
	Jerry Woodall	UC Davis
	Ming Wu	UC Berkeley
	Eli Yablonovitch	UC Davis
Viers, Joshua	UC Water collaborator	(see Bales)
	Alan Cai	UC Merced PhD- candidate
	Vicky Espinoza	UC Merced PhD- candidate
	Anna Fryjoff-Hung	UC Merced PhD- candidate
	Alison Whipple	UC Merced PhD- candidate
	T D d	HOM IDID 1114

Lorenzo Booth

UC Merced PhD- candidate

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

This reflects only the state accounts. The attachment shows all personnel paid with state funds and grants.

Administrative Personnel 4 FTE
Research Personnel 53 FTE
Technical Staff 6 FTE

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.

The SNRI faculty, students and staff are a strong representative group of the UC Merced community which has one of the most diverse student populations in the UC system. 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.

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.

• An updated list of all faculty publications is posted on the Sierra Nevada Research Institute Website.

# 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 17/18 Active Grants and Contracts to faculty	\$ 4,827,557.59
Gifts	\$ 24,413.00
State Funding (SNRI Operations)	\$ 295,446.59
Total	\$ 5,147,417.18

- See Attachment B for all funds administered by SNRI (page 20-27).
- See Attachment C for Gift details (page 27)

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.

# 24 new proposals were awarded this fiscal year with a total value of \$ 4,066,717.00 Important note: There are two Research administrators in SNRI and they provide both pre-award and post-award support for the faculty and manage the activity of over 50 active grants.

Proposals prepared 57 Proposals submitted 44 Proposal funded 24

Total value of newly funded proposals in FY 18/19 \$4,066,717.00

Note: These are minimum numbers and may reflect missing data for some faculty. This data is from the UC Merced CAYUSE system.

In fiscal year18/19, SNRI Research Administrators managed active grants with a total value of \$30,298,613.00 While 30 of these grants just need to be closed out, the administration of these grants will operate more efficiently when SNRI is appropriately staffed. Successful administration of these grants is essential in maintaining a strong reputation as a R1 Research Institution.

#### See Attachment D for FY 17/18 Grant activity (Pages 28-29)

These grants were awarded by the following 40 different funding entities:

Almond Board of California
AMEC
Bella Vista Foundation
Bureau of Reclamation – USDI
California Parks and Recreation
California Pistachio Research Board
California State University, Fresno
California Trout, Inc.

California Wildlife Conservation Board - WCB

Department of Energy/Miscellaneous Offices and Programs

Lawrence Livermore National Security, LLC

Merced County Mosquito Abatement District

Merced Irrigation District

National Institute for Food and Agriculture - NIFA

National Science Foundation - NSF

National Park Service - NPS

Nature Conservancy

Pennsylvania State University

San Diego County Water Authority

Savannah River Nuclear Solutions, LLC

Save The Redwoods League

Sequoia Riverlands Trust

South Yuba River Citizens

UC Agriculture and Natural Resources - UCANR

UC Berkeley

UC Center for Information Technology Research in Interest of Society-CITRIS

UC Davis

UC Los Angeles – UCLA

**UC MEXUS** 

UC Natural Reserve System

UC Office of The President - UCOP

UC Santa Cruz

UC Santa Barbara

UC San Diego

University of Missouri

University of Wisconsin

University of Southern California – USC

US Department of the Interior/Miscellaneous Agencies - SDI

US Department of Agriculture Forest Service – USDA

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

FY 17/18 Active Grants and Contracts to faculty	\$ 4,827,557.59
Gifts	\$ 24,413.00
State Funding (SNRI Operations)	\$ 295,446.59
Total	\$ 5,147,417.18

#### 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

Note: SNRI moved to SRE in the Fall of 2019, which will be reflected in the next annual report.

#### 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.
- o Develop an SNRI presence and program as a part of the Sustainability group in the new Sustainability, Research & Engineering Building
- Recruit additional new faculty and expand engagement with sustainability related research
- Identify new members for the SNRI Advisory Committee
- Reactivate the SNRI Directors Council
- Develop new Symposiums/Seminar Programs/Speaker events for SNRI with Faculty which appeals to the academic, agency staff, elected and the public
- Develop staffing support to foster a more balanced workload for the SNRI- ORU administrative staff. Develop up-to-date position descriptions
- Carry out strategic planning and contribute to the campus-wide strategic plan
- Rebuild staffing levels to continue providing high quality support to SNRI faculty and researchers

#### **ATTACHMENT: A**

#### SNRI Advisory Committee February 27, 2019 Notes from meeting are in italics

Present: Asmeret Asefaw Berhe (Chair) Josh Viers, CITRIS Yang Quan Chen, SNRI

Mike Dawson, SNRI

Roger Bales, Director, SNRI Armando Quintero, Executive Director, SNRI

Appointed, attending next meeting: Andrea Joyce, SSHA Dr. Andi Heard, National Park Service

#### Items to discuss

Need to develop statements for VC Traina to look into process about how ORU's are increasing grant funding awards and need to create sustainable funding approach for ORU's. So far, in FY 2018/19, there have been 37 grant proposals developed for SNRI faculty In the same period, \$8,058,628 in grants have been awarded to SNRI faculty. Key points to raise:

- Comparing external funding of ORU's to Schools needs to compare apples to apples
- The increase in grant submissions by SNRI faculty is creating relationships and collaborations which sets the stage for additional and future funding opportunities.

Invite Andi Heard and Andrea Joyce to next meeting. *Next Meeting March 27 4pm-5pm* Should we have a lunch to meet Andi meet in person? *Available dates in April?* 

Box for SNRI Advisory Committee is operating—These are the items in Box:

The purpose for this review is to re-evaluate what faculty needs for support from SNRIplease review the following 3 items and comment:

- SNRI Strategic Staffing Plan
  - o Faculty Director duties

• Exec Director duties

SNRI is going to be co-located in a new building with which is intended to bring together multi-investigator research which includes sustainability as one aspect of the research. We need to evolve to meet the needs of faculty as SNRI is bigger than Sustainability so we have to define this role so that Sustainability does not become limiting. Sustainability plus in the research agenda. An outcome as ORU's will be to increase the number of PhD's as an R1 University.

- SSHA event request SNRI sponsorship \$500.00 approved by SNRI AC
- Questions for faculty in BOX preparing a Qualtrix online questionnaire
  - Please review the questions in BOX and comment!
  - o Roger and Armando will be meeting with faculty to get feedback from faculty
- Websedge SNRI AGU film project
  - o Identified faculty who attend AGU and Armando developing video outline to present to SNRI AC and AGU Members.
  - This is a 6 minute video about SNRI for AGU target date for completion is May
     30
- Code of Conduct proposal *Please review to see if we would want to make available for faculty labs and SNRI offices.*

Review the following documents in BOX and add any comments or suggested changes:

- SNRI Directors Council current members that we need to revisit
- SNRI Directors Council role statement
- SNRI Bylaws
- SNRI One Pager

Who would you like to invite from SSHA?

How shall we seek nominations?

Mario Sifuentes? Armando to inquire about Mario's interest (Wednesday March  $6^{th}$ ).

Meetings for 3<sup>rd</sup> Wednesday at the same time for SNRI AC

#### **Ideas for promoting SNRI**

Presentation folders with SNRI logo

Updated one pagers

Develop a Speakers list with members

Seminar on the State of Research and Research needs in the Southern Sierra and San Joaquin Region.

#### **Attachment: B**

SNRI ACCOUNT SUMMARY BY DEPARTMENT OF ALL GRANT/RESEARCH/GIFT FUNDS ACCOUNT SUMMARY BY DEPARTMENT FOR THE PERIOD JULY 1,2018 TO JUNE 30, 2019 EXPENDITURES (CURRENT FUNDS)

#### SIERRA NEVADA RESEARCH INSTITUTE

		Fiscal	Year	Inception			
Account/CC	Fund	Appropriatio	Expenditure s	Appropriatio	Expenditure s	Encumbranc	Ledger Balance
Account/CC	runa	n ( )=Debit	( )=Credit	n ( )=Debit	( )=Credit	е	( )=Debit
449001	RESEA	RCH-SIERRA NE	· · · · · · · · · · · · · · · · · · ·	• • •	( )=Credit		( )-Debit
110001	2349		77.67.11.20 11.01	0. 2. (			
	4	4584.77	3512.26	29054.74	27982.23		1072.51
Total 449001		4584.77	3512.26	29054.74	27982.23	0.00	1072.51
449001/2A	1990	RCH-SNRI-OPER	ATIONS				
	0 1993	615448.45	614614.00	615448.45	614614.00	107.81	726.64
	4 2349	27041.00		27041.00			27041.00
	4 3736		1072.51		1072.51		(1072.51)
	5 4006	15000.00		15000.00			15000.00
	1 5516	25578.03	349.59	25578.03	349.59	21500.00	3728.44
	3 6832	7969.94		7969.94			7969.94
	0	15730.04		15730.04			15730.04
Total 449001/2A		706767.46	616036.10	706767.46	616036.10	21607.81	69123.55
449001/CC	RESEA 1990	RCH-SNRI-CLIMA	ATE COMMUNICA	ATION			
	0 4006	159672.65	42370.63	159672.65	42370.63	12706.16	104595.86
	1	7989.50	1883.79	7989.50	1883.79		6105.71
Total 449001/CC		167662.15	44254.42	167662.15	44254.42	12706.16	110701.57
449001/MS	RESEA 2247	RCH-SIERRA NE	VADA RES INST	SAFEEQ			
	3 5756	69661.82	26099.26	154150.00	110587.44		43562.56
	9	175774.50	105107.70	209810.00	139143.20	44.88	70621.92
Total 449001/MS		245436.32	131206.96	363960.00	249730.64	44.88	114184.48
449001/VR	RESEA 1990	RCH-SNRI-OPER	ATION-VEHICLE	RECHARGE			
	0	2074.67	2074.67	2074.67	2074.67		0.00
Total 449001/VR		2074.67	2074.67	2074.67	2074.67	0.00	0.00

449001/WA		CH-SNRI-WAWON	NA FIELD STATIO	ON-OP			
	1990 0					0.01	(0.01)
	6832 0	364.49		364.49			364.49
Total 449001/WA		364.49	0.00	364.49	0.00	0.01	364.48
Total 449001		1126889.86	797084.41	1269883.51	940078.06	34358.86	295446.59
449002/NM	RESEARO 2009	CH-SNRI-IDC RE	TURN-N MILLER				
	5	567.50		567.50			567.50
Total 449002/NM		567.50	0.00	567.50	0.00	0.00	567.50
449002/RR	RESEARO 1993	CH-SNRI-IDC RE	TURN-R RICE				
	3 2009	1230.02		1230.02			1230.02
	5	720.18		720.18			720.18
Total 449002/RR		1950.20	0.00	1950.20	0.00	0.00	1950.20
449002/SJ	2009	CH-SNRI-IDC RE	TURN-S JEPSON				
T / 1 / / / / / / / /	5	23.31	0.00	23.31	2.22	0.00	23.31
<b>Total 449002/SJ</b> 449002/WR	RESEARC 2009	<b>23.31</b> CH-SNRI-IDC RE	0.00 TURN-ROGGE	23.31	0.00	0.00	23.31
	5	69.92		69.92			69.92
Total 449002/WR	}	69.92	0.00	69.92	0.00	0.00	69.92
Total 449002		2610.93	0.00	2610.93	0.00	0.00	2610.93
449205/CF	2126	SNRI EARTH SY	S-PART SUPP-C				
	7	15535.46	615.99	20000.00	5080.53		14919.47
Total 449205/CF	DECEAR	15535.46	615.99	20000.00	5080.53	0.00	14919.47
449205/PS	2133	CH-SNRI-EARTH					
	1	15000.00	14999.95	15000.00	14999.95		0.05
Total 449205/PS Total 449205		15000.00 30535.46	14999.95 15615.94	15000.00	14999.95	0.00	0.05 14919.52
449208/RB	RES-SNR	I-ENV ENG-OVR		35000.00	20080.48	0.00	14919.52
440200/TCD	2124	I-LIV LIVO-OVI	D VAIN-IN BALLO				
	1	4770.30		12445.00	7674.70		4770.30
Total 449208/RB		4770.30	0.00	12445.00	7674.70	0.00	4770.30
Total 449208	DECEAR	4770.30	0.00	12445.00	7674.70	0.00	4770.30
449209/RB	2124 1	30973.39	IG-PART SUPP-E	300064.00	269090.61		30973.39
Total 449209/RB	ı	30973.39	0.00	300064.00	269090.61	0.00	30973.39
Total 449209		30973.39	0.00	300064.00	269090.61	0.00	30973.39
449213/ER	RES-SNR 5811	I-COMPUTER SC				0.00	00010100
	7						0.00
Total 449213/ER		0.00	0.00	0.00	0.00	0.00	0.00
Total 449213	DECEADO	0.00	0.00	0.00	0.00	0.00	0.00
449214	2349 4	CH-SNRI-ENVIRC 1747.32	1747.32	1991.68	1991.68		0.00
Total 449214	7	1747.32	1747.32	1991.68	1991.68	0.00	0.00
449214/AJ	RESEARC	CH-SNRI-ENV EN			1001.00	0.00	0.00
	5813		2				
=	4			14628.84	14628.84		0.00
Total 449214/AJ	DECEAR	0.00	0.00	14628.84	14628.84	0.00	0.00
449214/AW	1834	CH-SNRI-ENVRN	IVIN I L ENG-A WE	SIEKLING			
	4 1835	9451.69	9300.00	250000.00	249848.31		151.69
	5	34526.90	20617.54	118464.00	104554.64		13909.36

	1990						
	0	91000.00	99144.60	91000.00	99144.60		(8144.60)
	2211 4	(572.01)		60000.00	60572.01		(572.01)
	2247 7	62337.21	48207.25	190000.00	175870.04		14129.96
	2255 3	69508.20	27579.23	79997.00	38068.03		41928.97
	5755 8			153007.04	153007.04		0.00
	5757 8	43729.16	16886.33	61557.00	34714.17		26842.83
	6909 0	16575.58	9551.89	16575.58	9551.89		7023.69
	6985 1		20578.26		20578.26		(20579.26)
Total 449214/AW	•	326556.73	<b>251865.10</b>	1020600.62	945908.99	0.00	(20578.26) <b>74691.63</b>
449214/J1		RCH-SNRI-ENVIRO			343300.33	0.00	74051.05
110211/01	3765	torr ortital Ertvirte		, will bele			
	8	16991.05		16991.05			16991.05
Total 449214/J1		16991.05	0.00	16991.05	0.00	0.00	16991.05
449214/JC	RESEAF 2130	RCH-SNRI-ENV EN	IG-J ELLIOT CAN	MPBELL			
	0 2242	848034.65		1346241.00	498206.35	142555.94	705478.71
	3 3765	116636.70	95578.69	623284.68	602226.67	30077.07	(9019.06)
	8 5811	41854.64		41854.64			41854.64
	0 6976	(241.73)		249277.00	249518.73		(241.73)
	3 6985	161258.24		161258.24			161258.24
	1	1596.49		1596.49			1596.49
Total 449214/JC		1169138.99	95578.69	2423512.05	1349951.75	172633.01	900927.29
<b>Total 449214/JC</b> 449214/JM		<b>1169138.99</b> RCH-SNRI-ENV EN			1349951.75	172633.01	900927.29
	2248	RCH-SNRI-ENV EN	IG-MEDELLIN-AZ	ZUARA		172633.01	
449214/JM		RCH-SNRI-ENV EN 12895.00	IG-MEDELLIN-AZ 380.77	ZUARA 12895.00	380.77		12514.23
449214/JM  Total 449214/JM	2248 8	RCH-SNRI-ENV EN 12895.00 <b>12895.00</b>	380.77 380.77	ZUARA		172633.01 0.00	
449214/JM	2248 8 RES-SN 5812	RCH-SNRI-ENV EN 12895.00	380.77 380.77	2UARA 12895.00 <b>12895.00</b>	380.77 <b>380.77</b>		12514.23 <b>12514.23</b>
449214/JM <b>Total 449214/JM</b> 449214/JV	2248 8 RES-SN	RCH-SNRI-ENV EN 12895.00 <b>12895.00</b> RI-ENVIR ENG-J \	380.77 <b>380.77</b> <b>380.77</b> /IERS	12895.00 <b>12895.00</b> <b>34238.14</b>	380.77 <b>380.77</b> 34238.14	0.00	12514.23 <b>12514.23</b> 0.00
449214/JM  Total 449214/JM  449214/JV  Total 449214/JV	2248 8 RES-SN 5812 2	RCH-SNRI-ENV EN 12895.00 <b>12895.00</b> RI-ENVIR ENG-J \ <b>0.00</b>	380.77 380.77 380.77 /IERS	12895.00 12895.00 34238.14 34238.14	380.77 <b>380.77</b>		12514.23 <b>12514.23</b>
449214/JM <b>Total 449214/JM</b> 449214/JV	2248 8 RES-SN 5812 2	RCH-SNRI-ENV EN 12895.00 <b>12895.00</b> RI-ENVIR ENG-J \	380.77 380.77 380.77 /IERS	12895.00 12895.00 34238.14 34238.14	380.77 <b>380.77</b> 34238.14	0.00	12514.23 <b>12514.23</b> 0.00
449214/JM  Total 449214/JM  449214/JV  Total 449214/JV	2248 8 RES-SN 5812 2 RESEAF 1830 8	RCH-SNRI-ENV EN 12895.00 <b>12895.00</b> RI-ENVIR ENG-J \ <b>0.00</b>	380.77 380.77 380.77 /IERS	12895.00 12895.00 34238.14 34238.14	380.77 <b>380.77</b> 34238.14	0.00	12514.23 <b>12514.23</b> 0.00
449214/JM  Total 449214/JM  449214/JV  Total 449214/JV	2248 8 RES-SN 5812 2 RESEAF 1830	RCH-SNRI-ENV EN 12895.00 <b>12895.00</b> RI-ENVIR ENG-J \ <b>0.00</b> RCH-SNRI-ENVIRO	380.77 380.77 380.77 /IERS 0.00 DNMENTL ENG-N	12895.00 12895.00 34238.14 34238.14 4 CONKLIN	380.77 380.77 34238.14 34238.14	0.00	12514.23 12514.23 0.00 0.00
449214/JM  Total 449214/JM  449214/JV  Total 449214/JV	2248 8 RES-SN 5812 2 RESEAF 1830 8 2124	12895.00 12895.00 12895.00 RI-ENVIR ENG-J \ 0.00 RCH-SNRI-ENVIRO 23698.85	380.77 380.77 380.77 /IERS 0.00 DNMENTL ENG-N	12895.00 12895.00 34238.14 34238.14 M CONKLIN 100000.00	380.77 380.77 34238.14 34238.14 76392.25	0.00	12514.23 12514.23 0.00 0.00 23607.75
449214/JM  Total 449214/JM  449214/JV  Total 449214/JV  449214/M1	2248 8 RES-SN 5812 2 RESEAF 1830 8 2124 1	12895.00 12895.00 12895.00 RI-ENVIR ENG-J \ 0.00 RCH-SNRI-ENVIRO 23698.85 180921.96	380.77 380.77 380.77 /IERS 0.00 DNMENTL ENG-N 91.10 111485.40 111576.50	12895.00 12895.00 34238.14 34238.14 M CONKLIN 100000.00 643930.00 743930.00	380.77 380.77 34238.14 34238.14 76392.25 574493.44	0.00	12514.23 12514.23 0.00 0.00 23607.75 69436.56 93044.31
449214/JM  Total 449214/JM  449214/JV  Total 449214/JV  449214/M1	2248 8 RES-SN 5812 2 RESEAF 1830 8 2124 1 RESEAF 1830 8 6908	12895.00 12895.00 12895.00 RI-ENVIR ENG-J V 0.00 RCH-SNRI-ENVIRO 23698.85 180921.96 204620.81 RCH-SNRI-ENVIRO	380.77 380.77 380.77 /IERS 0.00 DNMENTL ENG-N 91.10 111485.40 111576.50 DNMENTL ENG-N	12895.00 12895.00 34238.14 34238.14 4 CONKLIN 100000.00 643930.00 743930.00	380.77 380.77 34238.14 34238.14 76392.25 574493.44 650885.69	0.00	12514.23 12514.23 0.00 0.00 23607.75 69436.56 93044.31
449214/JM  Total 449214/JM  449214/JV  Total 449214/JV  449214/M1  Total 449214/M1  449214/M2	2248 8 RES-SN 5812 2 RESEAF 1830 8 2124 1 RESEAF 1830 8	12895.00 12895.00 12895.00 RI-ENVIR ENG-J V 0.00 RCH-SNRI-ENVIRO 23698.85 180921.96 204620.81 RCH-SNRI-ENVIRO	380.77 380.77 380.77 7IERS 0.00 0NMENTL ENG-N 91.10 111485.40 111576.50 0NMENTL ENG-N	12895.00 12895.00 34238.14 34238.14 4 CONKLIN 100000.00 643930.00 743930.00 4 CONKLIN	380.77 380.77 34238.14 34238.14 76392.25 574493.44 650885.69	0.00	12514.23 12514.23 0.00 0.00 23607.75 69436.56 93044.31 0.00 (37091.64)
449214/JM  Total 449214/JM  449214/JV  Total 449214/JV  449214/M1  Total 449214/M2  Total 449214/M2	2248 8 RES-SN 5812 2 RESEAF 1830 8 2124 1 RESEAF 1830 8 6908 5	12895.00 12895.00 12895.00 RI-ENVIR ENG-J V 0.00 RCH-SNRI-ENVIRO 23698.85 180921.96 204620.81 RCH-SNRI-ENVIRO (13202.89) (13202.89)	380.77 380.77 380.77 /IERS 0.00 DNMENTL ENG-N 91.10 111485.40 111576.50 DNMENTL ENG-N 23888.75 23888.75	12895.00 12895.00 34238.14 34238.14 M CONKLIN 100000.00 643930.00 743930.00 M CONKLIN (13202.89) (13202.89)	380.77 380.77 34238.14 34238.14 76392.25 574493.44 650885.69	0.00	12514.23 12514.23 0.00 0.00 23607.75 69436.56 93044.31
449214/JM  Total 449214/JM  449214/JV  Total 449214/JV  449214/M1  Total 449214/M1  449214/M2	2248 8 RES-SN 5812 2 RESEAF 1830 8 2124 1 RESEAF 1830 8 6908 5	12895.00 12895.00 12895.00 RI-ENVIR ENG-J V 0.00 RCH-SNRI-ENVIRO 23698.85 180921.96 204620.81 RCH-SNRI-ENVIRO	380.77 380.77 380.77 /IERS 0.00 DNMENTL ENG-N 91.10 111485.40 111576.50 DNMENTL ENG-N 23888.75 23888.75	12895.00 12895.00 34238.14 34238.14 4 CONKLIN 100000.00 643930.00 743930.00 4 CONKLIN (13202.89) (13202.89)	380.77 380.77 34238.14 34238.14 76392.25 574493.44 650885.69	0.00	12514.23 12514.23 0.00 0.00 23607.75 69436.56 93044.31 0.00 (37091.64)
449214/JM  Total 449214/JM  449214/JV  Total 449214/JV  449214/M1  Total 449214/M2  Total 449214/M2	2248 8 RES-SN 5812 2 RESEAF 1830 8 2124 1 RESEAF 1830 8 6908 5	12895.00 12895.00 12895.00 RI-ENVIR ENG-J V 0.00 RCH-SNRI-ENVIRO 23698.85 180921.96 204620.81 RCH-SNRI-ENVIRO (13202.89) (13202.89)	380.77 380.77 380.77 /IERS 0.00 DNMENTL ENG-N 91.10 111485.40 111576.50 DNMENTL ENG-N 23888.75 23888.75	12895.00 12895.00 34238.14 34238.14 4 CONKLIN 100000.00 643930.00 743930.00 4 CONKLIN (13202.89) (13202.89)	380.77 380.77 34238.14 34238.14 76392.25 574493.44 650885.69	0.00	12514.23 12514.23 0.00 0.00 23607.75 69436.56 93044.31 0.00 (37091.64)
449214/JM  Total 449214/JM  449214/JV  Total 449214/JV  449214/M1  Total 449214/M2  Total 449214/M2	2248 8 RES-SN 5812 2 RESEAF 1830 8 2124 1 RESEAF 1830 8 6908 5	12895.00 12895.00 12895.00 RI-ENVIR ENG-J V 0.00 RCH-SNRI-ENVIRO 23698.85 180921.96 204620.81 RCH-SNRI-ENVIRO (13202.89) (13202.89) (13202.89) RCH-SNRI-ENVIRO 104200.28	380.77 380.77 380.77 7IERS 0.00 0NMENTL ENG-N 91.10 111485.40 111576.50 0NMENTL ENG-N 23888.75 23888.75 0N ENG-BEUTEL 87403.47	12895.00 12895.00 34238.14 34238.14 M CONKLIN 100000.00 643930.00 743930.00 M CONKLIN (13202.89) (13202.89)	380.77 380.77 34238.14 34238.14 76392.25 574493.44 650885.69 23888.75 23888.75	0.00 0.00 0.00	12514.23 12514.23 0.00 0.00 23607.75 69436.56 93044.31 0.00 (37091.64) (37091.64)
449214/JM  Total 449214/JM  449214/JV  Total 449214/JV  449214/M1  Total 449214/M2  Total 449214/M2	2248 8 RES-SN 5812 2 RESEAF 1830 8 2124 1 RESEAF 1830 8 6908 5 RESEAF 2096 1 5760 6 6976	12895.00 12895.00 12895.00 RI-ENVIR ENG-J V 0.00 RCH-SNRI-ENVIRO 23698.85 180921.96 204620.81 RCH-SNRI-ENVIRO (13202.89) (13202.89) (13202.89) RCH-SNRI-ENVIRO 104200.28 78658.00	380.77 380.77 380.77 7IERS 0.00 0NMENTL ENG-N 91.10 111485.40 111576.50 0NMENTL ENG-N 23888.75 23888.75 0N ENG-BEUTEL 87403.47 67300.79	12895.00 12895.00 34238.14 34238.14 4 CONKLIN 100000.00 643930.00 743930.00 4 CONKLIN (13202.89) (13202.89) 146857.00 78658.00	380.77 380.77 34238.14 34238.14 76392.25 574493.44 650885.69 23888.75 23888.75 130060.19 67300.79	0.00	12514.23 12514.23 0.00 0.00 23607.75 69436.56 93044.31 0.00 (37091.64) (37091.64) 16796.81 11243.46
449214/JM  Total 449214/JM  449214/JV  Total 449214/JV  449214/M1  Total 449214/M2  Total 449214/M2	2248 8 RES-SN 5812 2 RESEAF 1830 8 2124 1 RESEAF 2096 1 5760 6 6976 3	12895.00 12895.00 12895.00 RI-ENVIR ENG-J V 0.00 RCH-SNRI-ENVIRO 23698.85 180921.96 204620.81 RCH-SNRI-ENVIRO (13202.89) (13202.89) (13202.89) RCH-SNRI-ENVIRO 104200.28	380.77 380.77 380.77 7IERS 0.00 0NMENTL ENG-N 91.10 111485.40 111576.50 0NMENTL ENG-N 23888.75 23888.75 0N ENG-BEUTEL 87403.47	12895.00 12895.00 34238.14 34238.14 M CONKLIN 100000.00 643930.00 743930.00 M CONKLIN (13202.89) (13202.89)	380.77 380.77 34238.14 34238.14 76392.25 574493.44 650885.69 23888.75 23888.75	0.00 0.00 0.00	12514.23 12514.23 0.00 0.00 23607.75 69436.56 93044.31 0.00 (37091.64) (37091.64)
Total 449214/JM 449214/JV  Total 449214/JV 449214/M1  Total 449214/M1 449214/M2  Total 449214/M2  449214/MB	2248 8 RES-SN 5812 2 RESEAF 1830 8 2124 1 RESEAF 2096 1 5760 6 6976 3	12895.00 12895.00 12895.00 RI-ENVIR ENG-J V 0.00 RCH-SNRI-ENVIRO 23698.85 180921.96 204620.81 RCH-SNRI-ENVIRO (13202.89) (13202.89) (13202.89) RCH-SNRI-ENVIRO 104200.28 78658.00 168736.00	380.77 380.77 380.77 7IERS 0.00 0NMENTL ENG-N 91.10 111485.40 111576.50 0NMENTL ENG-N 23888.75 23888.75 0N ENG-BEUTEL 87403.47 67300.79 85903.37 240607.63	12895.00 12895.00 34238.14 34238.14 4 CONKLIN 100000.00 643930.00 743930.00 4 CONKLIN (13202.89) (13202.89) 146857.00 78658.00 168736.00 394251.00	380.77 380.77 34238.14 34238.14 76392.25 574493.44 650885.69 23888.75 23888.75 130060.19 67300.79 85903.37	0.00 0.00 0.00	12514.23 12514.23 0.00 0.00 23607.75 69436.56 93044.31 0.00 (37091.64) (37091.64) 16796.81 11243.46 82832.63

	1990						
	0		113794.70		113794.70		(113794.70)
	2124	132934.11	40012.57	295352.20	202430.66		92921.54
	2248 8	864554.64	67790.72	908215.00	111451.08	166242.02	630521.90
	2248 9	376068.39	195962.17	387597.00	207490.78		180106.22
	2260 0	(9064.72)	10368.97	394099.00	413532.69	596.09	(20029.78)
	2261 4		56819.16		56819.16		(56819.16)
	2672 3	1028.29	1012.81	162000.00	161984.52		15.48
	4006 1 4008	93415.94	10682.30	93415.94	10682.30	800.00	81933.64
	0	18885.46	765.58	18885.46	765.58		18119.88
Total 449214/MC		1479477.43	512030.98	2327747.60	1360301.15	167638.11	799808.34
449214/QG		ARCH-SNRI-ENVIR	ONMENTAL EN	G-Q. GUO			
	2126 3 2248	19050.56		265854.00	246803.44		19050.56
	2 2 2260			32053.79	32053.79		0.00
	4			50492.26	50492.26		0.00
Total 449214/QG		19050.56	0.00	348400.05	329349.49	0.00	19050.56
449214/R1		ARCH-SNRI-ENVIR	ONMENTAL EN	G-R. BALES			
	2124 1 2248	656736.37	479124.19	2207986.80	2030374.62	103.10	177509.08
	0	(2953.47)		20000.00	22953.47		(2953.47)
Total 449214/R1		653782.90	479124.19	2227986.80	2053328.09	103.10	174555.61
449214/R2		ARCH-SNRI-ENVIR	ONMENTAL EN	G-R. BALES			
	2124	64747.43	13377.28	163062.00	111691.85		51370.15
	4006 1	9835.42	480.00	9835.42	480.00		9355.42
	6908 5	(6521.03)	1304.66	(6521.03)	1304.66	21.64	(7847.33)
Total 449214/R2		68061.82	15161.94	166376.39	113476.51	21.64	52878.24
449214/RB		ARCH-SNRI-ENVIR	ONMENTAL EN	G-R. BALES			
	1836 5	266130.78	90129.87	454644.00	278643.09	1007.74	174993.17
	1839 5	788202.00	136739.65	788202.00	136739.65	78304.77	573157.58
	1990 0	425908.81	269423.79	425908.81	269423.79	90.01	156395.01
	2120 5			1705393.80	1705393.80		0.00
	2124 1 2247	248742.39	83157.35	601244.00	435658.96	13507.58	152077.46
	5 2248	601.29		122500.00	121898.71		601.29
	0 3647	109769.48	98883.81	384000.00	373114.33		10885.67
	0 4008	(344.74)		(344.74)			(344.74)
	0 5800	27879.87		27879.87			27879.87
	7 6908	59890.55	62214.53	104433.00	106756.98		(2323.98)
	5 6983	803.09		803.09			803.09
	5	(610.84)		(610.84)			(610.84)
Total 449214/RB		1926972.68	740549.00	4614052.99	3427629.31	92910.10	1093513.58

449214/RR	RESEARCH-SNRI-ENVIR ENG-R. RICE						
	2247 1	68254.62	44053.96	206005.23	181804.57		24200.66
Total 449214/RR		68254.62	44053.96	206005.23	181804.57	0.00	24200.66
449214/ST			ONMENTAL ENG		1010001	0.00	
	1 5863	17366.00	17366.00	17366.00	17366.00		0.00
	7	82096.53	41339.87	120000.00	79243.34		40756.66
Total 449214/ST		99462.53	58705.87	137366.00	96609.34	0.00	40756.66
449214/WR	6908	H-SNRI-ENVIR	O ENGINEERING	W ROGGE			
	5	15000.00	3250.46	15000.00	3250.46	700.00	11049.54
Total 449214/WR	2	15000.00	3250.46	15000.00	3250.46	700.00	11049.54
Total 449214		6400403.83	2578521.16	14692770.55	10870887.88	434119.71	3387762.96
449216	2349	CH-SNRI-MECHA					
	4	810.00	810.00	810.00	810.00		0.00
Total 449216	DECEADO	810.00	810.00	810.00	810.00	0.00	0.00
449216/YC	3647	H-SNRI-MECHA	ANICAL ENG-Y C	HEN			
	0	25241.39	18389.54	25241.39	18389.54		6851.85
Total 449216/YC		25241.39	18389.54	25241.39	18389.54	0.00	6851.85
Total 449216		26051.39	19199.54	26051.39	19199.54	0.00	6851.85
449224/RB	1990		OST SHARE-BA				
T / 1 / / 000 / /DD	0	116728.78	116578.69	116728.78	116578.69	0.00	150.09
Total 449224/RB Total 449224		116728.78 116728.78	116578.69 116578.69	116728.78 116728.78	116578.69 116578.69	0.00 0.00	150.09 150.09
449253	RESEARC		SYSTEMS SCIE		110370.09	0.00	130.09
4-10200	2349	2394.70	2394.70	2724.70	2724.70		0.00
Total 449253		2394.70	2394.70	2724.70	2724.70	0.00	0.00
449253/AB	RES-SNRI	-EARTH SYSTE	MS SCIENCES-	A BERHE			
	2124 1	6702.70	6053.53	16896.00	16246.83		649.17
	5761	0102.10	0000.00	10000.00	102 10.00		010.17
	0	48243.00	9139.28	48243.00	9139.28		39103.72
Total 449253/AB	550 01151	54945.70	15192.81	65139.00	25386.11	0.00	39752.89
449253/CF	2126		MS SCIENCES-		10.10000 50	50000 54	500,400,00
Total 449253/CF	7	773723.55 <b>773723.55</b>	188957.14 <b>188957.14</b>	1633447.00 <b>1633447.00</b>	1048680.59 <b>1048680.59</b>	56333.51 <b>56333.51</b>	528432.90 <b>528432.90</b>
449253/EM	RESEARC		SYSTEMS - MO		1040000.33	30333.31	320432.90
440200/EIVI	2133	or or or extension	OTOTEMO MO	10 114			
	0 5816	199996.00	64745.99	199996.00	64745.99		135250.01
	6 5817	4441.02	3183.34	5000.00	3742.32		1257.68
	6	3998.00	52.88	3998.00	52.88		3945.12
Total 449253/EM		208435.02	67982.21	208994.00	68541.19	0.00	140452.81
449253/JB	2133		SYSTEMS SCI-				
Total 440050UD	5	386190.00	24583.68	386190.00	24583.68	572.23	361034.09
<b>Total 449253/JB</b> 449253/JS	RES-SVIDI	386190.00	24583.68 MS SCIENCES	386190.00	24583.68	572.23	361034.09
<del>11</del> 0200100	4006 1	7210.40	762.00	7210.40	762.00		6448.40
Total 449253/JS	·	<b>7210.40</b>	762.00 762.00	7210.40	762.00	0.00	6448.40
449253/LK	RESEARC		SYSTEMS SCIE			0.00	0
	2241						
T-4-1 4400F0# 15	0	0.00	0.00	1090275.87	1090275.87	0.00	0.00
Total 449253/LK		0.00	0.00	1090275.87	1090275.87	0.00	0.00

449253/MB	RESRCH-SNRI-EARTH SYSTEMS SCIENCES-BEMAN 6908						
	5	12672.22	6260.00	12672.22	6260.00		6412.22
Total 449253/MB		12672.22	6260.00	12672.22	6260.00	0.00	6412.22
449253/NM	6908	IRI-EARTH SYSTE	MS SCIENCES-N				000.00
Total 440252/NIM	5	203.68 <b>203.68</b>	0.00	203.68	0.00	0.00	203.68 <b>203.68</b>
<b>Total 449253/NM</b> 449253/PO		203.66 RCH-SNRI-EARTH		<b>203.68</b>	0.00	0.00	203.00
440200/10	1824	rtori orati Ezatiri	OTOTEMOT. O	5711			
	4 2122	52476.83	7595.20	53594.00	8712.37		44881.63
	1 2242			299999.52	299999.52		0.00
	6 4006	(1864.15)	(1511.26)	199999.89	200352.78		(352.89)
	1 5760	6112.83	5135.83	6112.83	5135.83		977.00
	1 5813	247808.00	77014.30	247808.00	77014.30		170793.70
	9 5866	214332.92	107306.79	609146.00	502119.87	374.71	106651.42
Total 440252/DO	5	36700.00	340.25	36700.00	340.25	274.74	36359.75
<b>Total 449253/PO</b> 449253/SH	DESEA	555566.43 RCH-SNRI-EARTH	195881.11	1453360.24	1093674.92	374.71	359310.61
449233/311	1836	IXOII-SINIXI-LAIXIII	3131LW3-3.1	IAITI			
	6 1993	(5279.10)	(5279.10)	140907.00	140907.00	27.76	(27.76)
	1 2124		5017.48		5017.48		(5017.48)
	1 3749	45009.80	43930.32	247066.00	245986.52	31.18	1048.30
	9 3765	2984.60	2977.37	2984.60	2977.37	15.02	(7.79)
	8 4006	21974.00	3704.61	21974.00	3704.61		18269.39
	1 5709	14250.00	11443.76	14250.00	11443.76	473.67	2332.57
	7	42120.99	36310.25	117643.00	111832.26	129.30	5681.44
Total 449253/SH	DEC CA	121060.29	98104.69	544824.60	521869.00	676.93	22278.67
449253/TG	1839	NRI-EARTH SYSS S	SCIENCES 1-GH	EZZENEI			
	0 2248	43156.00	43235.01	43156.00	43235.01		(79.01)
	4	208520.91	108637.63	357300.00	257416.72	63.00	99820.28
Total 449253/TG		251676.91	151872.64	400456.00	300651.73	63.00	99741.27
Total 449253 449315/KH	DESEV	2374078.90 RCH-SNRI-ANTHR	751990.98	5805497.71	4183409.79	58020.38	1564067.54
449313/101	2565	INOTI-SININ-ANTIIN	01 02001-11.110	)LL			
	3 2565			89261.51	89261.51		0.00
	7	16337.69	14979.61	74015.01	72656.93		1358.08
Total 449315/KH		16337.69	14979.61	163276.52	161918.44	0.00	1358.08
Total 449315	55054	16337.69	14979.61	163276.52	161918.44	0.00	1358.08
449318/NL	1837	RCH-SNRI-HISTOF	RY-LERCARI				
	1 1838		31635.78		31635.78	151968.11	(183603.89)
	7 1840	13542.97	13019.90	15000.00	14476.93		523.07
	3 1840	90000.00	28281.61	90000.00	28281.61		61718.39
	8 3765	50000.00		50000.00		40000.01	9999.99
	8	(6266.51)	3144.95	(6266.51)	3144.95		(9411.46)

	5860						
	9	(4294.48)	251.76		4546.24		(4546.24)
Total 449318/NL		142981.98	76334.00	148733.49	82085.51	191968.12	(125320.14)
Total 449318		142981.98	76334.00	148733.49	82085.51	191968.12	(125320.14)
449321/AJ		RCH-SNRI-PSYCH	OLOGY-A. JOYC	E			
	2095 8	9745.87	6682.59	50000.00	46936.72	9.79	3053.49
	4006					22	
	1 5814	10000.00	135.30	10000.00	135.30		9864.70
	5 5814	(4286.83)		50000.00	54286.83		(4286.83)
	8			36470.67	36470.67		0.00
	5816 7	42000.00	38073.50	42000.00	38073.50	19.82	3906.68
	5860 8 5861	221.64		25391.00	25169.36		221.64
	6			49000.00	49000.00		0.00
	5863 3 5863	11453.00	14538.62	45000.00	48085.62	45.00	(3130.62)
	9	1063.79	1217.60	49800.00	49953.81	158.72	(312.53)
Total 449321/AJ		70197.47	60647.61	357661.67	348111.81	233.33	9316.53
Total 449321		70197.47	60647.61	357661.67	348111.81	233.33	9316.53
629001/DH		SERVICE-SNRI-N	PI-HOSLEY				
	4003 9	1074.34		1074.34			1074.34
	6926 2	9082.55		9082.55			9082.55
Total 629001/DH	_	10156.89	0.00	10156.89	0.00	0.00	10156.89
629001/RB	PUBLIC	SERVICE-SNRI-R	. BALES				
	6985	(24200 50)	040.00	(24200 50)	040.00		(04070.70)
Total 629001/RB	1	(21260.56) (21260.56)	618.23 <b>618.23</b>	(21260.56) (21260.56)	618.23 <b>618.23</b>	0.00	(21878.79)
Total 629001		(11103.67)	618.23	(11103.67)	618.23	0.00	(21878.79) (11721.90)
629213/ER	PUBLIC	SERV-SNRI-COM			010.23	0.00	(11721.90)
	5811				40000 00		
T-4-1 620242/ED	7	0.00	0.00	13826.86	13826.86	0.00	0.00
Total 629213/ER Total 629213		0.00 0.00	0.00	13826.86	13826.86	0.00	0.00
789001/FA	FINANC 3647	CIAL AID-SNRI	0.00	13826.86	13826.86	0.00	0.00
	0		4000.00		4000.00		(4000.00)
	4006 1		2000.00		2000.00		(2000.00)
Total 789001/FA		0.00	6000.00	0.00	6000.00	0.00	(6000.00)
Total 789001		0.00	6000.00	0.00	6000.00	0.00	(6000.00)
789214/JC	3765	CIAL AID-SNRI-EN\	/ ENG-CAMPBEL				
	8	(26588.82)		(26588.82)			(26588.82)
Total 789214/JC	FINIANIC	(26588.82)	0.00	(26588.82)	0.00	0.00	(26588.82)
789214/MC	1830 8	CIAL AID-SNRI-EN\ (12294.00)	ENG-CONKLIN	12240.00	24534.00		(12294.00)
Total 789214/MC		(12294.00)	0.00	12240.00	24534.00	0.00	(12294.00)
789214/RB	FIN AID 2124	-SNRI-ENVIRONM					(======================================
	1	(11360.47)	5919.83	17488.00	34768.30		(17280.30)
Total 789214/RB		(11360.47)	5919.83	17488.00	34768.30	0.00	(17280.30)
Total 789214	EINI AID	(50243.29) -SNRI-LIFE/ENV S	5919.83	3139.18	59302.30	0.00	(56163.12)
789253/PO	O'DAY 1824						
	4	71153.79	56978.23	97809.00	83633.44		14175.56

	5760						
	1	52000.00	26000.00	52000.00	26000.00		26000.00
Total 789253/PO		123153.79	82978.23	149809.00	109633.44	0.00	40175.56
789253/SH	FIN AID HART 3765	-SNRI-LIFE/ENVII	RON SCI-				
	8	(21000.00)	15194.00	(21000.00)	15194.00		(36194.00)
Total 789253/SH		(21000.00)	15194.00	(21000.00)	15194.00	0.00	(36194.00)
Total 789253		102153.79	98172.23	128809.00	124827.44	0.00	3981.56
							5123004.18
State Funds		295446.59					
Gifts		24413.00					

 State Funds
 295446.59

 Gifts
 24413.00

 Grants
 4827557.59

 Total
 5147417.18

#### <u>Attachment: C</u> Gifts Administered through Development and Alumni Relations

#### Sierra Nevada Research Institute donations FY 18/19

Gift					Last	
Date	Gift Type	Fund Description	Title	First Name	Name	Gift Amount
6/26/19		SNRI - Climate Feedback		anonymous		\$15.00
6/25/19		SNRI - Climate Feedback	Mr.	Dan	Sandberg	\$10.00
5/28/19	Cash	SNRI - Climate Feedback	Mr.	Dan	Sandberg	\$10.00
4/29/19	Cash	SNRI - Climate Feedback	Mr.	Dan	Sandberg	\$10.00
		SNRI - Climate Change and the Ecology of Sierra Nevada			Brigham Young	
4/19/19	Cash	Forests Symposium		_	University	\$5,000.00
3/28/19	Cash	SNRI - Climate Feedback	Mr.	Dan	Sandberg	\$10.00
3/20/19	Cash	SNRI Fund	Mr.	Gary	Kremen	\$1,500.00
3/20/19	Cash	UC WATER SSRI SNRI - Entomology PI:	Mr.	Gary	Kremen	\$1,400.00
3/8/19	Cash	Andrea Joyce	Dr.	Andrea	Joyce	\$10,000.00
2/27/19	Cash	SNRI - Climate Feedback	Mr.	Dan	Sandberg United Way of Central New	\$10.00
2/1/19	Cash	SNRI - Climate Feedback			Mexico	\$228.00
1/28/19	Cash	SNRI - Climate Feedback	Mr.	Dan	Sandberg	\$10.00
12/31/18	Cash	SNRI - Climate Feedback	Mr.	Dan	Sandberg Benevity,	\$10.00
12/31/18	Cash	SNRI Fund			Inc. Benevity,	\$3,000.00
12/31/18	Cash	SNRI Fund			Inc.	\$3,000.00
12/11/18	Cash	SNRI - Climate Feedback	Mr.	Ville	Lahde	\$50.00
12/4/18	Cash	SNRI - Climate Feedback	Mr.	Dan	Sandberg	\$10.00
10/29/18	Cash	SNRI - Climate Feedback	Mr.	Dan	Sandberg	\$10.00

9/26/18	Cash	SNRI - Climate Feedback	Mr.	Dan	Sandberg	\$10.00
8/27/18	Cash	SNRI - Climate Feedback	Mr.	Dan	Sandberg	\$10.00
7/27/18	Cash	SNRI - Climate Feedback	Mr.	Dan	Sandberg	\$10.00
7/12/18	Cash	SNRI - Climate Feedback	Mr.	Ville	Lahde	\$100.00
					Total	\$24,413.00

#### **ATTACHMENT:** D (next 2 pages)

This information is from the UC Merced CAYUSE records

Grant proposals submitted through Sponsored Projects Office in FY 18/19

Proposals prepared 57 Proposals submitted 44 Proposal funded 24

Total value of newly funded proposals in FY 18/19 \$4,066,717.00

#### Sierra Nevada Research Institute 2018/19 Fiscal Year Research Proposals Generated

57 project proposals were prepared for SNRI Faculty and Researchers in the 2018/19 FY

Date of	Cayuse Record	Name of	Sponsor	Funding Level	Title of Project
Submission	#	Faculty-Lead		Requested	
07/10/2018	18-0479	Dan Edwards	NSF	\$1,260,949.00	CAREER
07/27/2018	18-0527	Roger Bales	UCOP	1,865,002.00	MRPI
07/27/2018	19-0030	Jeff Jenkins	UCOP	\$660,892.00	MRPI
07/27/2018	19-0031	Peggy O'Day	Dept of Defense	178,955.0	Anchor-QEA
09/17/2018	19-0032	Nicola Lercari	Cal Parks and Recreation	\$220,000.00	Interactive 3donline
08/27/2018	19-0036	Mohammad Safeeq	Cal Wildlife Conservation Board WCB	\$558,189.00	Southern Sierra Streamflow Enhancement
07/19/2018	19-0039	LeRoy Westerling	Ecology and Environment – San Mateo	\$67,000.00	Wildfire Vulnerability and Resilience Initiative
07/23/2018	19-0041	Asmeret Berhe	UC Santa Cruz- sub	\$259,244.00	MRPI
07/22/2018	19-0042	Marc Beutel	UCB sub	\$10,000.00	MRPI
07/25/2018	19-0044	John Beman	UCSD sub	\$129,999.00	MRPI
07/30/2018	19-0049	Peggy O'Day	UCB sub	\$275,225.00	MRPI
08/09/2018	19-0071	Martha Conklin	Cooperative Ecosystem Studies Units	\$210,731.00	Hemlock Phase 3
10/31/2018	19-0097	Marc Beutel	City of San Diego – AMEC	\$236,392.00	Hodges Reservoir
11/01/2018	19-0152	Peggy O'Day	Cal Dept of Fish and Wildlife	\$798,559.00	Cdwl_delta
10/20/2018	19-0157	Mohammad Safeeq	UCANR	\$75,291.00	Ryan-ciwr
11/01/2018	19-0158	Jeff Jenkins	Save The Redwoods League	\$12,500.00	Giant-sequoia
11/01/2018	19-0176	Roger Bales	UC Irvine -sub	\$1,796,291.00	SGC
10/31/2018	19-0188	Steve Hart	UC Riverside sub	\$50,000.00	Nsf-ucr

11/28/2018	19-0207	Alejandro Gutierrez	City of Newman	\$179,986.00	Wetland feasibility
12/07/2018	19-0220	Nicola Lercari	NSF	\$93,205.00	UNC Chapel Hill- UCM
12/18/2018	19-0228	Andrea Joyce	Cal Pistachio Research Board	\$85,480.00	Potential Pheromone Strains
12/18/2018	19-0232	Catherine Keske	NSF		Letter of Intent
1/5/2019	19-0240	Asmeret Berhe	Lawrence	\$202,656	Deeply Rooted:
			Livermore		Evaluating Plant
1/17/2019	19-0244	Nicola Lercari	NSF	\$994,838	Acquisition of UAV- based Lidar
01/23/2019	19-0259	Mohammad Safeeq	New Mexico State	\$185,987	Hydrosocial transformation to balance availability
02/04/2019	19-0242	Roger Bales	Consortium of Univ	\$3,000	Let's talk about Water
02/12/2019	19-0303	Asmeret Berhe	Georgia Southern University	\$91,676	Integrating major North American forest cover types
02/14/2019	19-0285	Emily Moran	NSF	\$417,580	The risks of safety: xylem anatomy
02/20/2019	19-0319	Mohammad Safeeq	CSU Fresno	\$33,000	Farm Water Management Toolkit
02/21/2019	19-0301	Asmeret Berhe	NSF	\$408,656	New Arctic
02/21/2019	19-0313	Andrea Joyce	UC Davis	\$24,921	PacVec Training
02/21/2019	19-0318	Nicola Lercari	Ca State Parks	\$90,000	Fort Ross
02/27/2019	19-0336	Emily Moran	Seq Riverlands	\$8,322	Forest Future
03/06/2019	190348	Leroy Westerling	UC Davis	\$412,683	Strategies for Mitigation
03/15/2019	19-0355	Anne Kelly	NSF	\$81,664	Safety in Ocean and Field Sciences
03/19/2019	19-0365	Asmeret Berhe	Univ of Colorado	\$299,998	Plant-soil linkages
03/19/2019	19-0368	Asmeret Berhe	Univ of Wisconsin	\$299,615	Post-fire Carbon Cycling in the Northern Boreal Forest
03/21/2019	19-0371	Nicola Lercari	Ca State Parks	\$50,000	RESEARCHING AND IMPLEMENTING ADA
03/23/2019	19-0376	Peggy O'Day	Modesto City Wellfield feas	\$36,700	Modesto Wellfield Nitrate/Arsenic/Uranium Remedial
03/26/2019	19-0379	Roger Bales	NSF	\$998,660	CZO
04/11/2019	19-0382	Teamrat Ghezzehei	DOE	\$539,935	Coupling hydrological and physical mechanisms
04/11/2019	19-0384	Peggy O'Day	DOE	\$540,000	Impact of phosphorus from airborne deposition
05/13/2019	19-0429	Teamrat Ghezzehei	NSF	\$299,978	Novel digital and metabolomic sensing of soil
05/31/2019	19-0431	Peggy O'Day	Savannah River Nuclear Solutions	\$270,001	Manganese and Iron Oxide-modified Activated Carbon



## Sierra Nevada Research Institute

## Research Symposium

UC Merced Research Week 2019

For more information contact: snrirequests@ucmerced.edu

### Water, Soils and Forest Climate Challenges in the Southern Sierra and San Joaquin Valley



"Reusing organic wastes to mitigate climate change in agroecosystems"



"The future of safe drinking water in California"



"Disturbance and recovery, fire impacts on vegetation water use in the Sierra Nevada"

## Monday, March 4, 2019 11:30 am - 2:00 pm Kolligian Library - Room 232

11:30 am Lunch and refreshments

12:00 pm Introductions and Overview - Roger Bales, Director SNRI

12:10 pm Reusing organic wastes to mitigate climate change in agroecosystems Rebecca Ryals, Assistant Professor

12:30 pm The future of Safe Drinking Water in California Colleen Naughton, Assistant Professor

12:50 pm Disturbance and recovery, Fire impacts on vegetation water use in the Sierra Nevada
Christine Ma, Post Doctoral Researcher, SNRI

1:20 pm Moderated Panel discussion with speakers

Lunch and Refreshments Provided



UCMERCED UNIVERSITY OF CALIFORNIA



## Sierra Nevada Research Institute **Faculty**

## University of California, Merced







































































#### Sierra Nevada Research Institute **BYLAWS**

#### **Article I: Mission and Objectives**

The Sierra Nevada Research Institute (SNRI) is an Organized Research Unit<sup>1</sup> at UC Merced, with a mission to discover and disseminate new knowledge that contributes to sustaining the environment and ecosystems of California, and related regions worldwide, through integrated research and scholarly activity in natural science, social science, humanities, arts and engineering. This mission will be accomplished through:

- Collaborative, multidisciplinary research conducted by faculty, students, staff from multiple schools and graduate groups schools at UC Merced;
- Strong interactions with related research units within the UC system and close collaborative relations with scientists and managers at national laboratories (particularly LLNL), local, state, and federal agencies, and non-governmental organizations;
- Creation of research facilities on the UC Merced campus and within the Central Valley and Sierra Nevada regions of California;
- Sharing of research results, data and information with public and private stakeholders in the region through publications, forums and workshops.
- Fostering links between natural and cultural understanding and resources in the region.

As an Organized Research Unit (ORU), SNRI was established to provide a supportive infrastructure for interdisciplinary research complementary to the academic goals of UC Merced's graduate groups and undergraduate degrees. SNRI will facilitate research and research collaborations; disseminate research results through research conferences, meetings and other activities; strengthen graduate and undergraduate education by providing students with training opportunities and access to facilities; seek extramural research funds; and carry out university and public service programs related to the SNRI's research expertise.

#### **Article II: Membership**

Membership shall be opened to faculty and researchers who are actively involved in scientific inquiry and scholarship consistent with the objective of SNRI, as defined in Article I. Membership is not limited to UC Merced ladder-rank faculty and may include individuals in the professional research series. Voting privileges on SNRI policy and bylaw matters are restricted to SNRI members who are ladder-rank faculty.

Affiliate membership is open to individuals who do not hold a UC Merced appointment but are engaged in scholarship consistent with the objective of SNRI as outlined in Article I.

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<sup>&</sup>lt;sup>1</sup> See http://www.ucop.edu/research/orupolicy.html for Administrative Policies and Procedures Concerning Organized Research Units within UC.

Individuals wishing to be members or affiliate members of SNRI must submit a written request to the Director indicating their interest and briefly outlining how they will contribute to the SNRI mission. This should be accompanied by a current curriculum vita. Materials will be evaluated by the Membership Committee and the individual admitted to SNRI membership if their application receives a majority vote of the Committee.

Members are expected to participate actively in SNRI's mission and objectives. Each member is responsible for providing the Membership Committee with appropriate documentation of participation. The Committee will conduct a review of the membership every four years using the following metrics: 1) An active research program indicated by publication in the principal peer-reviewed journals relevant to the mission and scope of SNRI during the past four years, or other appropriate scholarly products. 2) A contribution to student mentorship and training by either advising or co-advising one or more students doing research or scholarship. 3) General contribution to the research and outreach mission of SNRI, e.g. through participation in grants and contracts as a principal investigator or co-investigator, or participation in other SNRI activities. Members who are approved as principal investigators at UC Merced may submit grant proposals through SNRI.

It is expected that members will be evaluated relative to more than one of the above metrics, while affiliate members will normally be evaluated relative to the 3<sup>rd</sup> metric.

#### **Article III: Director**

The Director of SNRI is appointed by the Chancellor. When a new director is appointed, nominations should be solicited from the Advisory Committee. Review of the director should take place every five years, with the review normally taking place shortly before the required five-year review of SNRI as an ORU.

#### **Article IV: Advisory Committee**

A formal Advisory Committee, chaired by a faculty member other than the Director, shall meet regularly, participate actively in setting the SNRI's goals as reflected in the SNRI Strategic Plan, and critically evaluate SNRI's effectiveness on a continuing basis. The Advisory Committee shall provide counsel to the Director on all matters pertaining to SNRI, including budgetary matters and personnel. More than half of the Advisory Committee members shall be ladder-rank faculty members from UC Merced. The committee may also include faculty from other UC campuses, members from the professional research series, and one or more members from outside UC. The Advisory Committee is appointed by the Chancellor to staggered three-year terms. The committee should report at least annually to the Chancellor.

#### **Article V: Internal Committees**

SNRI shall have a Membership Committee appointed by the Director in consultation with the Advisory Committee consisting of at least three SNRI ladder-rank faculty to review new and continuing applications for membership in SNRI. The Membership Committee will also review SNRI appointments to the professional research series in accord with the UC Academic Personnel Manual. The Membership Committee may constitute an ad hoc committee for review of an appointment if, in its judgment, additional expertise beyond that of the Membership Committee is needed for the evaluation

The Director will constitute such additional committees, in consultation with the Advisory Committee, as are needed to advise on the day-to-day operations of SNRI, including its laboratories and field facilities.

#### **Article VI: Meetings**

The membership of SNRI will meet on an as-needed basis to address issues of concern to the membership. The Director may call a meeting, and shall convene a meeting if requested in writing by the Advisory Committee chair or five members of SNRI.

#### **Article VII: Quorum**

Issues that require a vote of the membership shall provide an opportunity for all eligible members to vote. Group decisions will be determined by simple majority of those voting. If requested by one or more members, voting will be carried out in a manner that preserves anonymity.

#### **Article XI: Amendments**

Amendments to the By-Laws require approval by two-thirds majority of the eligible voting members of SNRI who participate in the vote. Written notice of the proposed amendment shall be sent to each member prior to the meeting at which the amendment is to be discussed, or one week prior to a vote if no meetin