

DEEP SPRINGS COLLEGE ANNUAL REPORT

2015



Letter from the Student Body

William Ehlers DS'14, SB President Terms I & II

The 2014-2015 school year at Deep Springs was an exciting one, both for DS'14 and newly arrived DS'15. The second years did their best to introduce the new class of Deep Springers to the various quirks of daily life in the valley. This involved showing the first year class the many places a Student Body meeting can be held. From the top of Chocolate Mountain and the Tortilla in the desert to the BH and its fluorescent lights, SB was held in almost every place imaginable. It also meant experiencing the joy of working together in the blistering heat during weekly labor parties, sharing the pleasure and pain of seven hours long (our record!) SB meetings, and spending three hours a day during our Summer Seminar attempting to understand the texts we had all read the night before.

So equipped with the communal experience of Term 1, the SB was ready to change things up for the coming year. Like last year, we had grown tired of meetings lasting routinely until 2:00 am and so we adopted a scheme designed to allow the meetings to end by midnight. Time-caps, more frequent email announcements, and rigorous moderation according to Robert's Rules were all intended to cut inefficiencies in our SB meetings. Similarly, in labor, too frequent labor parties had disgruntled the SB enough to make optional labor parties the norm throughout the year.

The time gained from these measures was used in the many other endeavors Deep Springs has to offer. With the arrival of our new Natural Science and Social Science Chairs, Michelle Lanan and Jennifer Smith, students could invest their newly found time, among many others things, in the study of political science or the fascinating behavior of Eusocial animals, such as ants. Or, for those who wanted to spend their time with philosophy and literature, classes focusing on Plato, Homer, Goethe, or a slew of classic French thinkers were readily available as well.

The extra time also went towards the extraordinary amount of extra-three pillar initiatives that cropped up throughout the year. Reading groups flourished. David Foster Wallace's *Infinite Jest*, William Carlos Williams's poetry, and Hannah Arendt's *Human Condition* were among the most popular texts read. Boojies and DSPACs remained an essential part of our monthly routine in the valley and in a leap of ambition, a group of students committed to a musical performance of *Les Misérables* for Thanksgiving.

And so, over the course of year, it became clear that whether it is through labor, academics, self-governance, or the spaces that exist in between them, Deep Springs can offer an infinitely deep experience. How and where to find it, however, every student must discover for himself.

Deep Springs Student Body

Class of 2014

Pranav Bhatnagar
Scarsdale, NY

Harry Choe
Londonderry, NH

William Ehlers
Augsburg, Bavaria
Germany

Sebastian Hart
Altadena, CA

Hamza Hassan
Goljanno, Somalia

Andrew Kim
New York, NY

Joseph Messer
Carriere, MS

Rango Peng
Daping, Chongqing
China

Isaac Price-Slade
Northampton, MA

Ethan Reichsman
Marlboro, VT

Bryce Snyder
San Rafael, CA

Thomas Thongmee
Lake Forest Park, WA

Matthew Zianni
Gahanna, OH

Aaron Ziemer
Williamstown, MA

Class of 2015

Martin Dolsky
Jihlava, Czech
Republic

Kieran Driskell
Boulder, CO

Nikolaj Gavrilov
Buende, Germany

Henry Gonzalez
Dumfries, VA

Tenzin Jamchen
El Cerrito, CA

Jesus Munoz
Panorama City, CA

Ikhzaan Saleem
Sapello, NM

Grayson Scott
Kingston Springs, TN

Elliot Setzer
Ottawa, Ontario
Canada

Sam Shzu
Plano, TX

Jacob Sorkin
Mount Kisco, NY

Jack Spira
Holladay, UT

Caleb Stevens
Niles, MI

Thomas Sullivan
Ipswich, MA

Carter Wilkinson
Bozeman, MT

Class of 2015



Back row standing, L-R: Jacob Sorkin, Grayson Scott, Kieran Driskell, Elliot Setzer, Sam Shzu, Ikhsaan Saleem, Henry Gonzalez, Thomas Sullivan, Caleb Stevens, Jack Spira, Jesus Munoz. Front row L-R: Tenzin Jamchen, Nikolaj Gavrilov, Martin Dolsky, Carter Wilkinson.

Class of 2014



Back row: Thomas Thongmee, Sebastian Hart, Matthew Zianni, Andrew Kim, Ethan Reichsman, Isaac Price-Slade, Bryce Snyder, William Ehlers, Aaron Ziemer, and Joseph Messer. Front row: Pranav Bhatnagar, Rango Peng, Hamza Hassan, and Harry Choe.

Deep Springs College Board (as of publication)

DS Corporation (non-profit directors) *

LL Nunn Trust #

Sally Carlson *#

Managing Partner Carlson Beck
Marin, CA

Jake Giessman DS'94 *

Asst. Principal
Lyman Moore Middle School
Portland, ME

David Hitz DS'80 (Chair) *#

Founder & Executive V.P.
NetApp
Sunnyvale, CA

Tom Hudnut *#

Educational Consultant
Resource Group 175
Los Angeles, CA

Kinch Hoekstra DS'82 #

Professor of Law & Political
Science, UC Berkeley
Kensington, CA

Marina Hsieh *

Professor, Santa Clara University
School of Law
San Ramon, CA

Michael Kearney DS'69 *#

Software Consultant
Littleton, MA

Rango Peng DS'14 *#

Student Trustee
Chongqing, China

F. Ross Peterson *#

President Emeritus &
Professor of History, Utah State
Logan, UT

Katie Peterson *

Asst. Professor of English
UC Davis
Davis, CA

Eric Swanson DS'65 *

Co-founder/Director for Research
Open Data Watch
Gig Harbor, WA

David Welle DS'80 *#

Producer & Development Director
Pepin, WI

Carter Wilkinson DS'15 *#

Student Trustee
Bozeman, MT

Frank Wu *#

Professor & Chancellor
UC Hastings College of Law
San Francisco, CA

Legal Counsel

Christopher Campbell DS'73
Attorney
Fresno, CA

Deep Springs Staff 2014/2015 (academic calendar)

Noah Beyeler DS'03
Farm & Maintenance

Kerrie Coborn
Development Officer

Niki Frishman
*Bookkeeper / Office
Manager*

Janice Hunter
Ranch Manager

Shelby MacLeish
Garden Manager

Padraic MacLeish
DS'99
*Director of Operations/
Mechanic*

Marc Mora
BH Manager, Chef

David Neidorf
President

Adam Nyborg DS'97 /
Ben Munger
Farm Manager

Gwen von Klan
Registrar & Librarian

David Welle DS'80
Development Director

Amity Wilczek
Academic Dean

Valley Cowboys
Zachary Robinson
DS'12
John Stuart DS'12

*White Mountain
Cowboys*
Abdramane Diabate
DS'12
Isaac Stafstrom DS'11
Farm Assistant
Lucas Tse DS'12

Long-Term Faculty

Michele Lanan
*Herbert Reich Chair
of the Natural Sciences*

David Neidorf
President; Philosophy

Jenny Smith
*Social Sciences
Professor*

Amity Wilczek
*Dean of Faculty;
Genetics, Ecology*

Visiting Faculty

Michael Brownstein DS'98
Jim Clayson

James Falzone
Kenny Gradert
Brian Hanrahan
Tom Miller DS'04
Katie Peterson

Peter Rosenblum DS'77
Warren Rosenblum DS'83
Caroline Schaumann
Bryden Sweeny-Taylor DS'98

Faculty and Academic Calendar 2014/2015

Summer Seminar, 2014

--Human Rights & World History

Peter Rosenblum DS'77 &
Warren Rosenblum DS'83
(course instructors)
Kenny Gradert
(writing instructor)

Fall, 2014

--Eusociality and the Superorganism
--Visual Communication of Complex Information
Michele Lanan

--Directed Study: Heidegger's Being and Time
--Independent Study: Intermediate Ancient Greek
--Plato's Republic
Tom Miller DS'04

--Homer
Katie Peterson & David Neidorf

--Independent Study: Engineering Sound and Music
--Directed Study: Practice of Ecological Research
Amity Wilczek

--Introduction to Social Science
--What Went Wrong? Explaining Disaster in the Social Sciences
Jenny Smith

--Jane Austen
--Independent Study: Investigating the Personal and Political: an Exploration of Feminism and Intersectionality
Katie Peterson

--Public Speaking
Tom Miller DS'04
--Weimar Cinema
Brian Hanrahan

Winter, 2015

--Independent Study: Bovine Paternity and DNA Analysis
Janice Hunter, Michele Lanan, Amity Wilczek

--Democracy in Comparative Perspective
--Logic
Jenny Smith

--French Thinkers
--Directed Study: Intermediate Greek II
Tom Miller DS'04

--Public Speaking
David Neidorf &
Amity Wilczek

--Independent Study: Leading a Creative Workshop
--The Chemistry of Food
Michele Lanan

--Mountains of the Mind
--The Age of Goethe
Caroline Schaumann

--Independent Study: Studio Art: Oil Painting
Michele Lanan

--Vertebrates of the Valley
Michele Lanan &
Amity Wilczek

--Visual Thinking, Visual Modeling
Jim Clayson

Spring, 2015

--Growing Food: From the Desert to the World
Amity Wilczek

--Music, People, and Places
James Falzone

--Race and Education
Bryden Sweeney-Taylor &
Michael Brownstein DS'98

Letter from the President

David Neidorf

All of us living in Deep Springs Valley would like to thank members of our extended community for your interest and support over the past year. As the college approaches the Centennial Celebration (June 30-July 3, 2017), our thoughts naturally turn to the remarkable history of the past century, and to the new century that lies ahead.

Our ability to look back over the record of one hundred years in the valley is greatly helped by Jack Newell's much appreciated history, just published in 2015: *The Electric Edge of Academe; The Saga of Lucien L. Nunn and Deep Springs College* (contact the college to purchase a copy). It is much harder to look ahead, to imagine what Deep Springs may be like at the next centennial in 2117. Many things have changed since the founding of the college - the nature of the academic program, for example, or the expanding sphere of Student Body participation in institutional governance. No doubt some things will change over the years ahead. But the core of the college has remained constant, and in fact what has changed reveals that core in stark relief. As we make plans to ensure the financial stability of the college over the next decade, it is equally important - in fact more important - to ensure the persistence of that educational core, and of the unusual and significant learning that it makes possible.

The past has a lot to teach us, and it exerts a proper fascination

for those who love this college. But students at Deep Springs take up its traditions by re-founding the Student Body anew each year, and the outcome of each new founding is not guaranteed - it's for this reason that after ninety-nine years Deep Springs can still describe itself as an experimental school. This tradition of re-founding a community centered on dedication to the complex project of education within academics, labor, self-governance, inflected by the contemplative leavening of the vastness of the desert, is a consistent tradition. And the arc of education can be long. We all speak of the importance of learning from your mistakes, and at Deep Springs this learning doesn't always happen while a given student is still here. L.L. Nunn created an educational program that provides individuals with rich learning opportunities over the long run, even as some of the initial ideals inexperienced students hold about life in the valley reveal themselves as too simple over time. You have only to talk to alumni to find this out.

In speaking of the future, it is tempting to fall into talking first of new initiatives, such as increased local food production, cell grazing on the irrigated fields, a shift to organic beef production, the importance of development goals to the ability of staff to focus their efforts on the educational experience, and the exciting experiment, (long overdue), of the many new

educational endeavors beginning to spring up based in various ways on the Deep Springs model.

But the view that matters most is blocked by these rhetorical high points: the educational experience, daily, personal, and particular, that unfolds here every day for individual students. It is Deep Springs' contribution to the lives, abilities, and aspirations of the individual students here, and to those who will be here next year, and the year after that, that makes the project of the college matter to the present and the future. For me, it's important to step away periodically from the welter of projects, committees, and development efforts, and to keep up significant educational contact with some of the students living across the lawn - without this, I could easily lose sight of what this place is, at its core, finally for. One student recently described his time at Deep Springs to me as having "sharpened the sword of his heart." A program that remains reasonably humane while holding out the possibility of such an educational experience is well worth our devotion. It is in the name of these students that we thank those who support the college for making it possible.

Readers of this report will want to know, however, about a few of the things happening at the macro-level at the college.

Coeducation remains the policy of the board, confirmed and

Letter from the President

continued

reconfirmed in three separate votes over the last four years. Most community members know that the transition to a coeducational student body, for which most planning was virtually completed during 2012, is for now blocked by a legal challenge. At the level of the California Superior Court, the college has won a favorable decision ordering modification of the founder's 1923 trust. At the conclusion of the decision, and on three separate legal grounds, the judge wrote: *the Court hereby decrees that the L.L. Nunn Trust should be modified by substituting the word "people" for "men" in the phrase "for the education of promising young men" in paragraph 1 of the instrument.* (You can read the whole decision on our website, by scrolling to the November 26, 2014 entry on the "Coeducation News" page, found under the News and Events" tab.)

Once sustained, the judge's order will clear the way for the board to modify the college's admissions policy to include women in the application pool. But the opponents of coeducation have appealed the decision, and it is impossible to predict how long the appellate process will take in the overloaded California court system. So for now, we are waiting for that process to run its course.

In the meantime, in a separate action the opponents of coeducation successfully sought a court order for payment of their legal expenses. Deep Springs made a discounted

payment to settle this action, which is now behind us. (You can read the full text of the settlement agreement in the January 16, 2016 posting on the aforementioned Coeducation page.) This agreement ends the action for payment to the opponents, but it does not affect their appeal of the court's ruling in favor of coeducation, which continues to make its way through the court system.

The Costs of Coeducation

Litigation: None of the costs of litigation or planning for coeducation have impacted the college's balance sheet. Most supporters know that in

crop sales, have been used for this purpose.

Increasing Student Body

Diversity: For many years, the relative lack of diversity at Deep Springs has been a source of concern for those of us who want to see the educational experience of social immersion in the student body - so significant a part of a Deep Springs education - remain vividly relevant to the upcoming century. There have been several diversity initiatives over the past few years, none bearing much fruit. But the board's vote for gender diversity in the



accordance with the pledge made at the beginning of the board's discussion of coeducation in 2011, to mitigate potential costs of what was then an unknown outcome, all of our legal costs have been compensated by donations from the Hitz Family Foundation. No other donations, and no income whatsoever from endowment or

SB entrants before the mule-packing competition at Bishop Mule Days: Tirragen Vixie '13, Lewis Ho '13, Will Hunt '13, and John Stuart '12.

student body seems to have made a significant difference. During the decade before the impact of the coed decision was felt, the student body averaged 10% students of color. Starting with the first class admitted

Letter from the President

continued

after the vote for coeducation in September 2011, the student body has averaged 40% students of color—a figure that just happens to track the U.S. population nationally.

What tells the tale are long-term averages; with such a small student body, diversity statistics vary greatly from year to year. But the current year at Deep Springs is a high-water mark. In addition to 40% students of color, 27% of the student body comes from overseas, and half of those from non-European countries. We have students whose families reside in the United States, Canada, China, Czech Republic, Germany, Korea, India, Maldives, Mexico, and Somaliland. Two of our students from abroad hail from families already displaced from Russia and Tibet.

20% of the students this year are first-generation Americans, whose family

members immigrated from Dominican Republic, India, Korea, Taiwan, and Thailand. In sum, languages spoken by SB members besides English include Arabic, Chinese, Czech, French, German, Hindi, Konkani, Korean, Italian, Russian, Spanish, Somali, Thai, and Tibetan. Finally, 20% are first-generation college students.

There is more progress to be made, and the pace will be uneven; for example, since nearly half of our students of color are from other countries, we are still underserving U.S. minorities. This shift in student body composition does create cultural challenges, but these are challenges well within the ability of the students at the college.

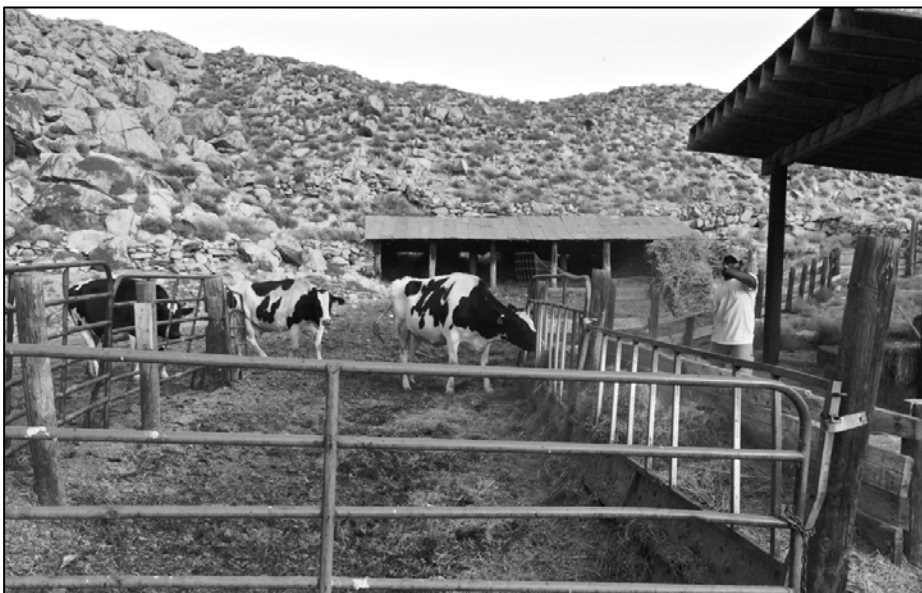
To sum up these facts: were applicants to the college to be drawn only from the comparatively homogenous social groups that dominated American life during the early part of the last century, we would with reason worry that the core of a Deep Springs

education expressed a cultural nostalgia with little claim on the dedication and the resources of the present and future. But instead, and as many alumni visitors attest, the core of the college program remains both vital and consistent.

Just as has been true over the last century, much is required of the students (and staff) at Deep Springs: relative isolation from familiar surroundings, support structures, and habitual distractions, intensive academics, daily manual labor, intensive and sometimes uncomfortably public community participation alternating with moments of searing solitude and self-examination, and the sometimes joyful, sometimes tedious, and sometimes agonizing responsibility of individual and collective self-governance. The college is, as it has been, harder than others; each year requires initiative, responsibility, occasional moral courage, and a collective self-reliance supported by sensible self-sacrifice. The skills and virtues thus developed are important no matter what the decade. We should be proud that the core program at Deep Springs remains continuous, vivid, and relevant.

Again, on behalf of the students here now and over the next decade, thank you for helping this unusual college to thrive. We hope to see you at the Centennial Reunion in 2017 to help begin our next century.

Ikzhaan Saleem DS'15 tends to the dairy cows.

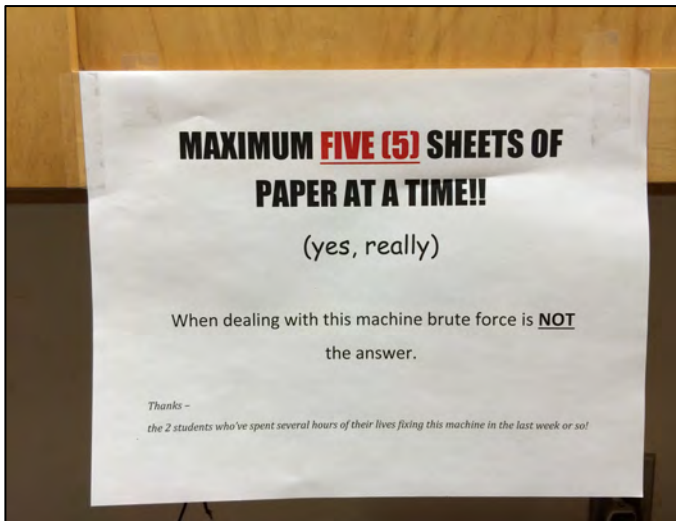




Nevada botanist Jim Morefield DS'79 photographs a specimen near the Bristlecones trail in the White Mountains.



Ranch Manager Janice Hunter advises student cowboys Matthew Zianni DS'14 and Ethan Reichsman DS'14 on horse shoeing technique.



Who says the Office Cowboy doesn't have manual labor?

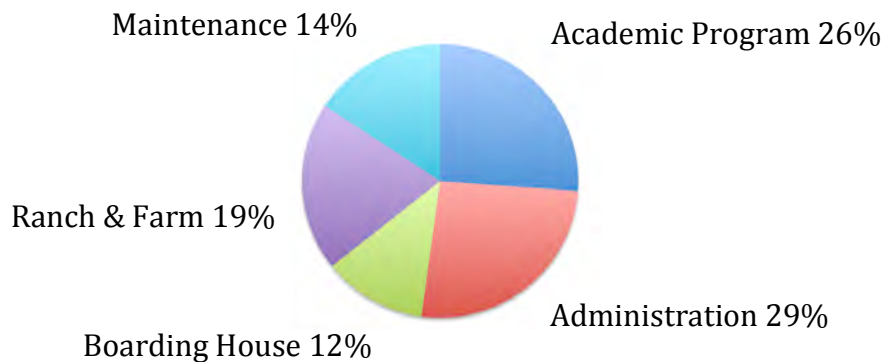


Kay Peterson, Andrew Kim DS'14, Caleb Stevens DS'15, and Chef Marc Mora prepare brunch in the BH.

Egg production has improved markedly since the introduction of the mobile chicken coop.

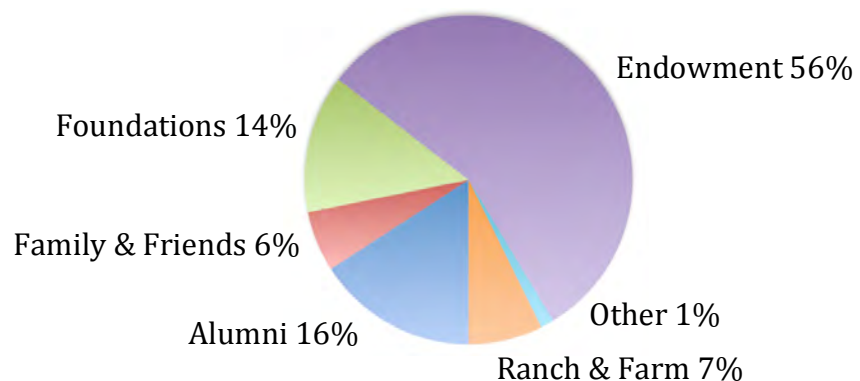
Operating Expenses	2014-2015	2013-2014
-		
Instructional & Student Services	\$422,649	\$421,696
Administration	\$474,663	\$494,174
Boarding House	\$193,269	\$157,859
Ranch & Farm Operations	\$321,746	\$324,036
Operations and Maintenance	\$235,982	\$247,996
Total Operating Expenses	\$1,648,309	\$1,645,761
Surplus (Deficit)	\$164,371	\$59,507

ANNUAL OPERATING EXPENSE – FY2015



Operating Revenue	2014-2015	2013-2014
Annual Operations Fund	\$631,667	\$608,406
Program Enrichment Gifts Utilized	\$12,641	\$20,619
Investments Utilized	\$1,023,300	\$936,733
Annual Fund Reserve Utilized	\$0	\$0
Other Income	\$11,495	\$16,196
Ranch/Farm Sales	\$133,577	\$123,314
Total Operating Revenue	\$1,812,680	\$1,705,268

ANNUAL OPERATING REVENUE – FY2015



Deep Springs College

CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

As of June 30	2015	2014
ASSETS		
Current Assets		
Cash and cash equivalents	\$174,209	\$268,455
Accounts receivable	\$165	\$368
Contributions receivable - net	\$0	\$421,968
Prepaid expenses	\$101,060	\$18,970
Total Current Assets	\$275,434	\$709,761
Land, Buildings, and Equipment		
Net of accumulated depreciation	\$8,423,064	\$8,659,617
Other Assets		
Charitable Remainder Unitrusts	\$228,457	\$232,657
Intangible asset - net of accumulate amortization	\$20,910	\$21,809
Investments	\$23,145,868	\$22,440,942
TOTAL ASSETS	\$32,093,733	\$32,064,786
LIABILITIES AND NET ASSETS		
Current Liabilities		
Accounts Payable	\$32,812	\$53,500
Accrued liabilities and taxes	\$69,050	\$58,120
Total Current Liabilities	\$101,862	\$111,620
Long-Term Liabilities		
Payable under charitable remainder unitrusts	\$5,945	\$8,730
Total Liabilities	\$107,807	\$120,350
Net Assets		
Unrestricted	\$17,887,535	\$17,394,371
Non-controlling interest in subsidiary	\$1,058,152	\$1,105,303
Temporarily restricted	\$6,279,627	\$6,682,735
Permanently restricted	\$6,760,612	\$6,762,027

The Benefits of a Life of Science

As part of our ongoing series profiling alumni in a variety of fields, this year we take a look at alumni in the sciences. Scientific advances of the past century have profoundly expanded our understanding of the universe. A unique challenge lies in making sure those advances are put to beneficial use for the health of the planet and humanity. The geologic treasures of Deep Springs Valley are well known and highly regarded in our memory, but alumni have used the opportunity as a jumping off point to a variety of careers in atmospheric research, biology, botany, chemistry, ecology, geology, mathematics, molecular genetics, physics, and more. There are too many to cover them all, but it's a pleasure to introduce three of them at various stages of their careers.

-David Welle DS'80

LEE TALBOT '48

Lee Talbot was born to a world of exploration. His mother and father were both ecologists, his father worked as a forest ranger (for a time as colleagues with naturalist Aldo Leopold in New Mexico), was one of the founders of the Wilderness Society and retired as director of US Forest Service research in the West. They took him on numerous trips as a boy and by his teens he had already hiked throughout the Sierras.

Lee was interested in pursuing a career in ecology, so when the principal of Berkeley High School told him about Deep Springs, he felt compelled by the unorthodox challenge the college presented. As a 'westerner' in the 1940s, he felt that the east coasters in the student body may have looked down on him culturally.

Nonetheless, he thrived in the academic environment and found his greatest joy was exploring the surrounding desert and mountains, for both fun and education. He joined classmates Curt Karplus and Leigh Ortenburger (who went on to pursue a notable career in mountaineering) on one of the first ascents of the east face of Mt. Whitney.

Lee completed his A.B. in Zoology at UC Berkeley. Ecology was considered a new discipline and the field was dominated by specialists who focused on

RAYMOND JEANLOZ '70

Raymond did not visit Deep Springs prior to arriving for classes in 1970, but he did find that what had attracted him – the unique combination of the three pillars – was just as he had imagined. He was impressed with the positive peer pressure among students to perform well academically, and he appreciated Randall Reid's emphasis on communication skills in Public Speaking and writing. Raymond feels fortunate that the community was cohesive and supportive during his two years.

The strong academic atmosphere was in contrast to his high school experience. In fact, Raymond had no real interest in science studies as a teenager, something he attributes in part to the generally mediocre teaching of science at the high school level. But he was interested in mathematics, and in the atmosphere of Deep Springs he began to see the creative side of science. Taking Dr. John Mawby's geology course (with just one other student) was a major catalyst. Raymond thoroughly enjoyed field trips and the analytical challenges of understanding geologic forces. He took time off following Deep Springs to carefully consider his interests, then re-entered college at Hampshire and Amherst to focus on earth sciences. He

SAM LANEY '87

Sam already planned to pursue environmental sciences after high school, but admits he didn't set his ambitions very high until motivated by Deep Springs, where he was drawn to the deliberate intellectual atmosphere that decreased distractions and allowed students an almost ascetic level of focus. He enjoyed the "applied intellectualism" of the labor program and community life and felt it was crucial to intellectual growth; likewise with the experiential learning, especially in SB meetings and committees. Sam feels that Deep Springs taught him how to teach himself, perhaps the most essential skill he's used in his career.

Sam recalls that there weren't many options for science courses at Deep Springs and he had to re-take several classes once he transferred to Cornell. But, he greatly appreciated the manner in which science was taught at Deep Springs, for it involved a great deal of creativity and inventiveness in making use of what was available at hand in the Valley. After Deep Springs Sam earned a B.S. at Cornell in Agricultural and Biological Engineering, jointly from the College of Engineering and the College of Agriculture and Life Sciences. He subsequently

TALBOT (cont.)

specific and distinct elements within ecosystems. Pure research was respected over applied ecology. However, Lee was more interested in a broad approach and was fortunate to have Starker Leopold (son of Aldo) and Carl Saurer as professors. He became a 'generalist' studying whole systems and how the multiple elements within an ecosystem interact.

He volunteered for OCS in the US Marine Corps during the Korean War and following his service Lee went looking for 'real world' experience conducting field research. Through a connection at the National Academy of Sciences, he was asked to write a research paper on species in East Africa. His work there landed him a position as staff ecologist with the fledgling IUCN. He subsequently spent two years traveling in Africa and Asia surveying ecological conditions in nearly 30 countries to lay the groundwork for understanding in areas that had not been studied since before WWII. He met with a broad spectrum of interested parties from hunters to heads of government and trekked in remote areas of Africa, the Middle East, South and Southeast Asia for a first-hand look.

Lee returned to Berkeley to pursue an interdisciplinary PhD in Geography and Ecology – a first. His research took him back to East Africa where he designed meticulous field studies to help advise the governments of Kenya, Tanganyika and the U.K. He spent years on safari with his new wife Marty (a longtime research partner and biologist in her own right), organizing logistics, developing effective maps for systematic surveys, conducting wildlife population counts and

JEANLOZ (cont.)

pursued inter-disciplinary work among the several schools in the 'five colleges' area of western Massachusetts, receiving his BS in Geology. But, he recalls having to do "some remedial science" studies as a graduate student. In 1979, he completed his PhD in Geophysics at Cal Tech and taught at Harvard from 1979 to 1981 before joining the faculty of UC Berkeley, where he now teaches.

Raymond's research focuses on the dynamic forces at play in the deep interiors of planets, a place where pressure exists on a scale millions of times higher than at Earth's surface. At those pressures, materials and chemical reactions – the periodic table itself – assume unusual properties. In order to identify and understand those properties, he needed to recreate conditions in the laboratory; a particular challenge. He has designed an array of experiments to generate tiny amounts of extremely high pressure for study. As one can imagine, the details are highly technical, but examples include using the tips of diamonds to simulate compression, shooting projectiles at high speeds to create impact waves, and generating high-energy laser pulses.

In 1988, he was named a MacArthur Fellow for his contributions that "have linked mineral physics, chemistry, and materials science" and also for presenting science to the public. Raymond's research with his students has afforded us a better understanding of how planets actually form, what makes up their interior, and how the materials far beneath our feet behave: for example, the temperature at Earth's center, and the main material making up our

LANEY (cont.)

worked at a federal laboratory and in industry, and later earned M.S. and Ph.D. degrees in Oceanography from Oregon State University, along with a minor in Computer Science and Electrical Engineering. Sam is now an Associate Scientist at Woods Hole Oceanographic Institution on Cape Cod where he has worked since receiving a WHOI postdoctoral scholarship in 2006. Sam's primary research interest is the study of photosynthesis by phytoplankton in marine ecosystems, particularly in polar oceans. As he stated in a 2013 interview with *Oceanus* magazine: "Just like plants on land, phytoplankton do photosynthesis. They suck up carbon dioxide and exhaust oxygen. About half the oxygen in the planet's atmosphere comes from phytoplankton. In fact, Earth didn't originally have oxygen in its atmosphere; the evolution of phytoplankton is responsible for there being oxygen for us in the first place." Sam notes that although this activity has been well understood for decades *at lower latitudes*, we understand remarkably little about this basic ecosystem process in the frigid waters of the Arctic and Antarctic.

That's because polar oceans are extraordinarily challenging environments to work in. Just traveling to a study region often involves weeks of transit on an icebreaker, then fieldwork in isolated locales for many weeks at sea under harsh weather conditions. But that is one of the things that attracts Sam. He enjoys the exploratory nature of his research at the top (or bottom) of the world and appreciates the challenge of devising new methods for studying ocean

TALBOT (cont.)

behavioral observations, directing and synthesizing research from multiple specialists, creating the first large scale ecosystem research project.

Lee received his doctorate in 1963, and the experience established what would become the operating principles for his career ever since: rigorously assemble as much data as you can (ideally through direct observation), synthesize how the various elements interact, publicize your findings to both the scientific community and policy makers, and advocate for management practices that benefit the health of those ecosystems. Lee feels strongly that it's essential to apply scientific research in pursuit of positive changes in public policy. His experience at the IUCN dealing with government officials in multiple countries convinced him that scientists actually can make a difference and get results, but only if they actively communicate their knowledge. For the subsequent 52 years, his career has straddled the worlds of science and public policy. He served in multiple roles, among them: Director of the Southeast Asia Project for the IUCN; Director of Environmental Sciences for the Smithsonian Institution; Senior Scientist and Director of International Affairs for the President's Council on Environmental Quality for three presidents; and Director-General of the IUCN.

The 1960s and 1970s saw extensive progress in environmental awareness and the establishment of legal protections that benefit not only the natural world but also human health. Lee recalls that environmental issues at the time were essentially non-

JEANLOZ (cont.)

planet. He states that one of the particular rewards of his research is that he's able to synthesize work with theoretical physicists to confirm or disprove their ideas and to fine-tune their ability to make calculations and predictions of other phenomena.

Raymond's teaching is intimately intertwined with his research, and he considers his students and the work they subsequently accomplish in their own careers as an important legacy. What's more, he finds teaching simply enjoyable. He notes that while it's common (and understandable) for scientist educators to focus their energy on the top 10% of their students, he also likes to design courses for non-scientists, feeling it's important for all citizens to be "empowered" by factual knowledge. Society benefits from finding effective ways to educate non-scientists on general scientific knowledge, especially at a young age. It's critical that people in positions of crafting public policy have the ability to understand scientific concepts even if they're not deeply knowledgeable in specifics.

At UC Berkeley, Raymond is one of a number of advisors tasked by the UC President to assess the quality and value of work conducted at the university's nuclear laboratories. He is a member of numerous scientific societies, including the National Academy of Sciences, which provides technical advice to the US Government. He became interested in security issues in the early 1990s and was asked to serve on the Committee on International Security and Arms Control, which he now chairs. He was recognized by the Federation of American Scientists for his work to help shape policy on the

LANEY (cont.)

ecology in severe environments. This is where he puts his engineering background to use, crafting new instruments and approaches for his own research. It's generally pretty high-tech stuff, but sometimes – being isolated on a ship in the Arctic Ocean – he'll need to 'MacGyver' a solution to a problem, working with what is available at hand. It's a little like his days at Deep Springs, making do with what tools and materials could be scrounged on the ranch or from the dump.

Sam finds the work satisfying on both an intellectual and personal level, as he gets to observe things that no one has observed before. Furthermore, he's hurrying to fill in substantial blanks in our understanding of the Arctic – before the opportunity is lost. Even over just the past decade, Sam has witnessed changing conditions in the Arctic, so he's working to gather as much data as possible during this time of drastic polar change. Ultimately, these observations will provide valuable baseline knowledge for comparison with future transformations in Arctic ecosystems. He was recognized by NASA for contributing to the 2010-11 ICESCAPE research project in the Chukchi Sea. Back in Massachusetts Sam enjoys mentoring and exploring ocean science with WHOI graduate students, who earn PhD degrees jointly in a program with MIT. Teaching is optional for WHOI scientists but Sam likes the creative engagement in teaching and encourages his students to think expansively when designing experiments or assessing observations. "Science isn't just a bunch of information; it's a human pursuit like art, or

TALBOT (cont.)

partisan. He notes that the first joint agreement between the US and USSR was an environmental one. As a senior advisor, he was able to work with both Republican and Democratic presidents in crafting policies and legislation that the congress was readily willing to support. Throughout his career, Lee has continued field research, believing both in the power of personal observation and that scientific exploration should also be “fun”. He established his own environmental consultancy firm in the mid-1980s and by the 1990s had begun an adjunct career teaching. For the past twenty years he has taught popular graduate courses in environmental and international policy at George Mason University. Often, his students are already involved in their own field research. He and Marty still explore regularly. For example, they have been making months-long treks through a remote portion of the Annamite Mountains in Laos to “discover what is there” and advise the World Bank and the government about potential impacts of development. Traveling on foot with a tiny group of Laotian assistants, they’ve identified several new species and even previously unidentified ethnic groups in the rugged forests. In 2009, Lee lectured at Deep Springs as the Withrow Chair in Government. He feels the most valuable part of his DS education was the self-governance component. Virtually all his professional positions have involved governance roles and he has found that an essential skill for scientists is the ability to understand how policy makers think and feel, and to be able to communicate readily with them.

JEANLOZ (cont.)

U.S. nuclear weapons program. In his experience, Raymond finds that scientists are often more free to talk to each other between countries than their governments, and benefit from having a shared language within their discipline. As such, scientific exchange – similar to arts and cultural exchanges – can serve to enhance peace and security. Scientists can use their specific technical expertise to further international accords, in some cases literally by setting the terms upon which verification occurs. Raymond cites just one example of his collaboration with other scientists: a 4-language glossary of terms related to nuclear weapons, arms control and non-proliferation that was generated by the 5 permanent members of the UN Security Council earlier this year. Raymond finds his work fulfilling on a number of levels. Advances in scientific understanding can lead to fantastic advances in technological innovation. “There’s nothing more wonderful that to create something that’s useful to people. Discoveries are rewarding.” At the same time, he recognizes that new technologies today are incredibly powerful and scientists need to help society adhere to high ethical standards about how to use technology for good. Ray served as a trustee of Deep Springs from 1995-2003. He believes his Deep Springs experience still inspires him to consider the needs of community, even globally. It’s why he continues to use his technical expertise in service of diplomats working to limit, and even reverse, the proliferation of nuclear weapons.

LANEY (cont.)

cooking, or music.” He pursues the hard sciences in a scholarly fashion, with a view towards the philosophy, history and sociology involved, and finds this necessary to impart the underlying value of scientific knowledge. He has been a visiting professor at Deep Springs on two separate occasions since earning his PhD. In his own experience Sam finds that scientific research can sometimes be a selfish pursuit. “Solving scientific puzzles is very satisfying intellectually, but you can lose sight of the bigger picture.” In recent years though, he has grown weary of ad hominem attacks on scientists and dismissive attitudes regarding science’s validity and its role in society. While he doesn’t feel science necessarily has “all the answers” he does believe that a basic understanding of how scientific knowledge is formed and continues to evolve is fundamental to informed citizenship. What’s more, scientists should be able to place their knowledge within the context of the liberal arts and recognize their own cultural biases and philosophical limitations. Sam still employs basic skills he learned from his Nunnian education at Deep Springs. Experience with criticism and persuasion from SB meetings serves him well in department meetings and on national-level committees. DS training in composition and public speaking remains an invaluable asset when presenting complex research results to peers or students. And isolation? No problem. “Being on a research vessel in the Arctic is a lot like being at Deep Springs. It requires the soft skills of working together in an isolated high-pressure environment.”

Fundraising Report FY2015

David Welle DS'80

'Steady as she goes' defines results for the past fiscal year. First, we surpassed our funding goal of \$600,000 by a healthy margin, for which we owe a great deal of thanks to many contributors.

While the number of alumni giving was down from the previous year, the total (246) was still in line with a trailing ten-year average. The number of family/friends contributing was up (217) and combined participation of all individuals was just above the trailing average. Meanwhile, although the number of individuals giving decreased from prior year, total funds received (\$631,667) for annual operations increased.

Therein lies the value of having broad participation across the years. With many individuals contributing year-over-year, we can absorb fluctuations in any given year and still maintain stable financial planning.

Such steady support is the kind of dedication we've tried to earn at

Deep Springs for the ongoing vitality of the college. We have been making the case for consistency in annual giving and we're grateful to the many members of the DS Community who have heeded the call.

Secondly, Deep Springs benefited in the past year from another kind of dedication: estate bequests. Several alumni in particular - Paul Davis DS'77, Bruce Laverty DS'43, Bill Allen DS'42, and Mary & Bob Sproull DS'35 - planned their support to extend beyond their own lives. Their contributions helped us boost the endowment to its highest level ever by year's end.

That accomplishment means the college is able to rely more steadily on investment income to meet our program costs, and that works hand-in-hand with ongoing support from annual contributions. For FY16, we can plan on over 60% of operating expense coming from endowment, with another 30% from annual gifts – a healthy state of affairs.

(In the same vein, several individuals took advantage of the

legacy challenge match last year to establish planned gifts to DS in their own estates, thereby extending the college's security.)

Last, but not least, Deep Springs continued to receive substantial support from The Adele M. Thomas Charitable Foundation, The Hitz Family Foundation, and The Sahan Daywi Foundation.

While we continue to hit our annual goals, we still have further to go to reach our long-range goals. Ideally, the most sustainable funding will use a ratio of 65/30/5 for income from endowment/annual gifts/ranch. To do that, we're launching the New Century Campaign on the threshold of Deep Springs' next 100 years. You can read about it on the next page of this report.

But here, I'd like to emphasize how much we appreciate the contributions of so many individuals and alumni class chair volunteers. You're making the difference.

Giving to Deep Springs (Cash Basis)	2014-2015	2013-2014
<u>Annual Operations Fund</u>		
Alumni, Family, & Friends	\$382,347	\$399,521
Foundations	\$248,273	\$208,245
Other Gifts	\$1,047	\$640
Total	\$631,667	\$608,406
<u>Program Enrichment Gifts</u>	\$12,641	\$30,140
<u>Restricted Gifts to Support Coeducation Transition & Litigation</u>	\$270,876	\$639,063
<u>Capital Giving</u>		
Contributions to Endowment	\$1,262,368	\$1,588,495
Other Capital Gifts	\$216,208	\$104,021
Campaign Expenses	(\$219,998)	(\$179,695)
Total	\$1,258,578	\$1,512,821
<u>Total Gifts</u>	\$2,393,760	\$2,970,125

Special on the Centennial – A New Century Campaign

Deep Springs has always awarded our students with a full scholarship. In the early years, this expense was paid from L.L. Nunn's original endowment. For the last half-century, Deep Springs has actively engaged in fundraising to meet those costs. But, from the 1960s well into the 1990s, those efforts went largely to just keeping the college afloat.

Deep Springs' extended community changed the financial balance with their contributions to a major capital campaign in the late 1990s and a successful endowment campaign completed two years ago. Because of those efforts, we're no longer at risk of going under.

The tables below illustrate how growth in our endowment allows us to thrive while keeping contributions to annual operations relatively stable. Income distribution of 65/30/5 from endowment/annual gifts/ranch is our target model to keep Deep Springs financially stable into the future, with periodic infusions for capital needs.

However, we're still swimming against the tide. The DS donor community is inherently a small one. And, due to a demographic dip in our alumni base, the average age (and wealth) of our alumni will shift lower over the next decade, so we anticipate that growth in annual giving will be essentially flat. Therefore, we wish to bolster the college's endowment even further.

With that in mind, we have launched a fundraising initiative – The New Century Campaign – to begin the second 100 years of Deep Springs College. We have three goals for 2019 and one longer-range goal:

1. Raise \$1,800,000 for remodeling the Boarding House to accommodate changes in the labor program, enhance community life, and facilitate self-governance.

2. Raise \$500,000 to endow the Herb Reich Chair in the Natural Sciences, for support of long-term faculty.

3. Raise \$250,000 to endow a fund in support of yearly short-term faculty for the Summer Seminar; every student's opening introduction to DS academic life.

4. Raise new contributions of \$9M for the endowment by 2026. Some of this will come from bequests already planned, but we also need further gifts – of all sizes – to secure Deep Springs' position going forward.

To do this, we will need the generous support of our tiny but dedicated community. With this effort, we can start the new Deep Springs century reinvigorated and set the college on a stable course for future generations of students.

Please visit the Contribute page of our website www.deepsprings.edu to see how you can help, and watch for updates and further information in the mail.

Yearly averages FY'02 – FY'15 for giving to annual operations:

	<u>Alumni</u>	<u>Family/Friends</u>	<u>Foundations</u>
Individual contributors	255	204	7
Individual annual contribution	\$ 944	\$ 854	\$ 35,000
Average Total contributions	\$ 239,000	\$ 166,000	\$ 245,000

Change in Budget	FY 2002	FY 2015	FY2027(proj.)
Annual Operating Budget:	\$1,296,000	\$1,648,000	\$2,283,000
Annual Gifts Received:	\$ 614,712	\$ 631,667	\$ 680,000
Annual Gifts % of operating expense:	47%	38%	30%
Endowment 5% draw in:	\$ 461,583	\$1,023,000	\$1,490,000
Endowment draw % of expense:	36%	62%	65%

(Percentages may not always equal 100% due to occasional deficit or surplus income.)

Contributors 7/1/14—6/30/15

Thank you, everyone!

IHO--In Honor of

IMO--In Memory of

***--Deceased*

##--Employer Matching Gift

Alumni Class Chairs are highlighted in bold.

Charles Abbott
Aldridge Plumbing &
Heating
Ronald Alexander
Samuel Allen
William Allen **
Benjamin Allen II
IMO William Allen
Ben Altman
Amazon Smile
John Ames & Janet Boggia
Keith Anderson
& Judy Jenner
Anonymous
Anonymous
Marc Applebaum
Ann Armstrong
Michael Armstrong DS'87
& Laurie Armstrong
David Arndt & Julie Park
Robert & Anne Marie
Atkinson
David & Rebecca Ayer
William & Margo Baker
Bruce Barkley
James & Adrienne Bartolome
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& Richard Sullivan
Brendon & Jean Bass
Nancy Baugh
& Michael Murphy
Jeremy Bearer-Friend
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Travis Beck
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Richard Berliner
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Christopher Breiseth
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& Audrey Tawa
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Judith Byars
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& Fauzia Copelin
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& Andrea Tuttle
Daniel Cottom
Katina Coulianos
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Tamara & Bruce Culbert
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& Eric Daar
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Michael Dehn
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IMO Norton Dodge
Owen Dombert
James Downing
Thomas & Jo Ann Downing
Mitch Dubin
& Kim Cheselka
Ellen Dulles-Coelho
Scott Earnest
Brad Edmondson DS'76 &
Tania Werbizky
Jacob Eigen
Michael & Betty Eigen
Alan Eisner
Sean Eldridge
& Chris Hughes
Jacob Englander
IMO Steve Gregory
Sharon & Leif Erickson
William Erickson

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Miles Everett DS'49

& Nanette Everett

Dan Fahey

Gene Fang

Benjamin & Elvia Farnham

Nicholas & Susan Fels

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Michael Fields

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John Fort

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Jeffrey & Elena Garrison

Sergei Garrison

Anneliese Garver

IMO Newton Garver

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& Reiko Kato

John Getsinger

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James Gibbs & Dick Page

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Tyler Glenn & Adriane Budvari

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Bryce Goodman

Diana & Richard Goodman

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Paul Greenberg

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Beth Grossman

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& Mary Guth Haselton

Jane Hritz Hall

& Robert Hall

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Simon Hamm

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Hanson Bridgett LLP

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Shawna & Anthony Hart

Nickoline Hathaway

Lindsay Haut

IMO William Allen

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& Jana Holbi'kova'

Henry & Margo Hayes

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Peter Heald

Matthew Healey DS'85

& Jacqueline Rubin

Helen Heckman

Adam Hefty

Maureen & Timothy

Henderson

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Tristram Hewitt

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Jeff Holzgreffe

& Elizabeth Kiss

Olga & David Hoople

John Horst

John & Marilee Hoskins

Hans & Linda Houshower

Walter & Hanna Howald

Annette Howard

IMO Sherwin Howard



The SB cooks & bakers outdid themselves for the 1980s alumni reunion.



Dairy maintenance remains unchanged. Nick Jones '13, Noah Beyeler '03, and Will Hunt '13 clean the drainage ditch.

Marina Hsieh

Michael Hudgens

& Eric Luna

Thomas Hudnut

John Hudson

Raymond & Caroline Huey

Dawn & Vince Hundt

Contributors 7/1/14—6/30/15

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& Diane Decker-Ihle
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William & Susan Iverson
IMO William Allen

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& Gina Kuperberg
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& Jennie Romero
Christopher Jennings
George & Kathy Jensen
Margot Jerrard
IMO Richard P. Jerrard

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Jeff & Glo Johnson
Kathleen Jones
Robert & Andrea Jones

Ravi Jonnal
Brian Judge

JustGive
Abram Kaplan
Steven Kaplan
& Janet Levine

James Karpe
& Lisa Gladstone

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Kenneth Kaufman
& Kimberly Hensley

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Camille Keonjian
Edward Keonjian
Thomas Kinney

W. Carleton
& Eleanor Kinney
Mark Kirby
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& Elisabeth Swain
Joseph Klemke
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Akira Kobayashi
Mikolaj Kocikowski
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& Rebecca Ryan
Michael & Michelle
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& John Siliciano
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& Shona Unger
University of Illinois
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Gilbert Welch

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& Kathryn Werdegarr
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& Ann Roggenbuck
Katherine Ann Williams
IMO John Spring &
Katherine Suhr
Robley & June Williams
William & Barbara Wilson
Susan Witter
Elizabeth Wolgast
Alan Wright
Frank Wu & Carol Izumi
Martynas Ycas **
Brian Yeager
& Tamami Kimura
Frank Young DS'45
& Loretta Young
Stokes Young & Jesamyn Go
Barbara Zadra
& Kent Bradford
Robert & Mary Joan Zaletel
Franklin & Allison Zaromb
Michael & Donna Zianni



Editor's Note: An essay in our 2014 Annual Report described some personal details of an individual's medical history. We regret the oversight and apologize for any harm that individual experienced as a result of the identification. We have deleted the identifying information in electronic versions of that report. -DW

The LL Nunn Society

Lucien L. Nunn established Deep Springs in 1917, and he made financial arrangements upon his death in 1925 to support its operations into the foreseeable future. While his efforts firmly established the institution we know today, it would not have survived 100 years were it not for the financial commitment of so many others in the past fifty years. In particular, much of Deep Springs' current endowment has come from those listed below.

In the past decade, bequests have added over \$7 million to the endowment. That translates to roughly \$350,000 in annual operating funds (not counting appreciation) which are crucial to the college's success. We recognize these members of the extended DS Community – alumni, family, friends and former staff – who have chosen to follow in L.L. Nunn's footsteps and provide for Deep Springs in their estate plans.

A New Century

You can play your part in securing Deep Springs' new century beginning in 2017 by making the college a beneficiary of your will, retirement fund, or life insurance. Notify us of your gift plan and we will receive a matching gift *today* equal to 10% of your declared bequest (subject to some limits). Visit our website www.deepsprings.edu/contribute to download a notification form.

MEMBERS CURRENT

John W. Ames DS'54
Anonymous (x4)
Jeanette Begg
Catherine Bergel
Joyce Chestnut
Fauzia & Clark Copelin DS'98
William W. Cowan DS'43
Martha Diggle
Brad Edmondson DS'76
Henry & Ta-Yun Fang
Robert Gatje DS'44
Lindsey Grant DS'43
Bruce Hamilton DS'71
Dave Hitz DS'80
Mrs. Ralph (Patricia) Kleps Hok
John A. Hoskins DS'61
Raymond & Carolyn Huey DS'61
Jeff Johnson DS'55
Curtis Karplus DS'48
Michael Kearney DS'69
Melvin Kohn DS'44
Robert Leonard
Julian "Pete" MacDonald DS'43
Gary & Emily Mahannah DS'70
L. Jackson Newell DS'56
Mrs. Don (Patricia) Novelli
Phyllis Olin
Thomas "Pete" Palfrey DS'43
Donald P. Pederson DS'43
Robert H. Peters DS'44

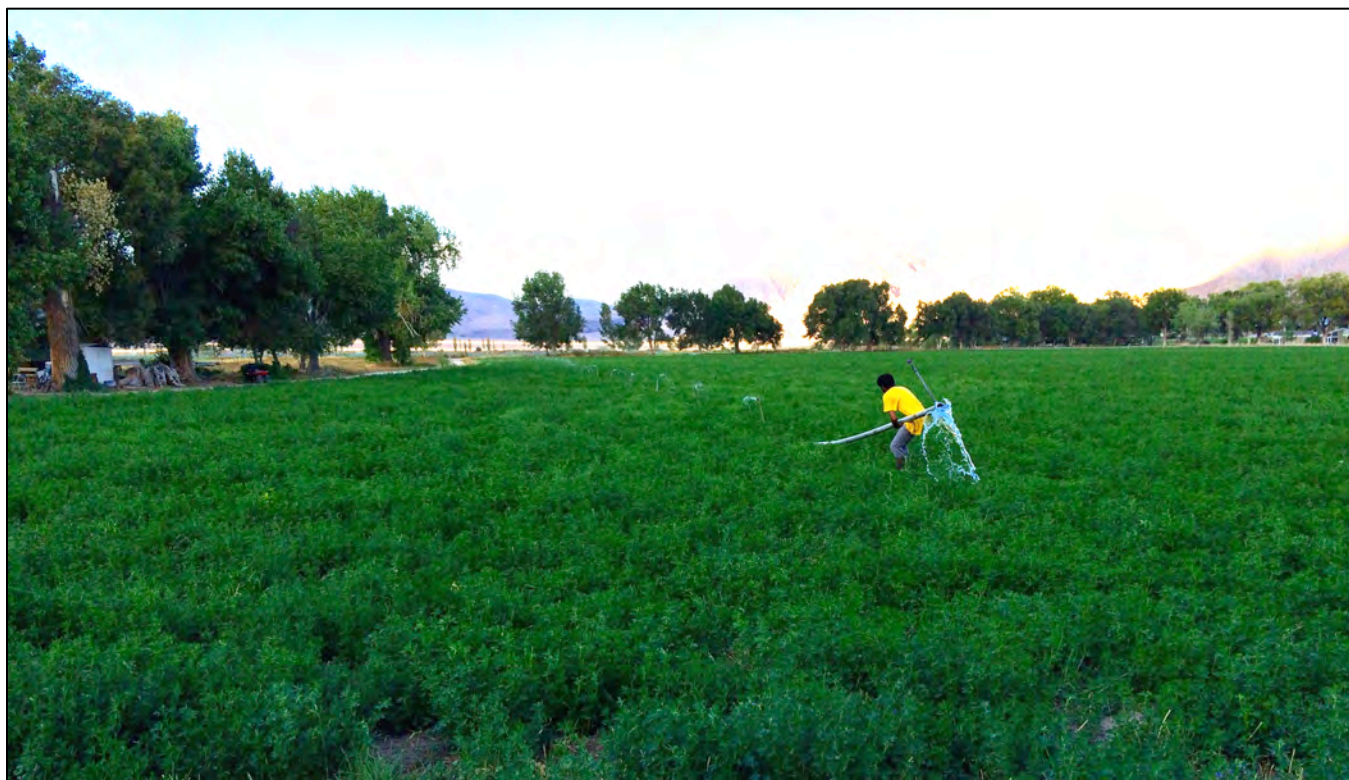
Jules L. Riskin DS'44
Nathan Sayre DS'87
Dorothy Schwartz
Doug Sietsema DS'69
Juraj & Julie Slavik DS'48
Robert Van Duyne DS'45
William J. vanden Heuvel DS'46
Alice Dodge Wallace
David Webb DS'53
Kevin West DS'88

MEMBERS DECEASED

Robert B. Aird DS'21
Ronald Alexander DS'64
Joan & William "Bill" Allen DS'42
Frederick Balderston DS'40
Kurt & Alice Bergel
Minerva Brownstein
Robert L. Bull DS'48
Elizabeth Mason Butterworth
Barney Childs DS'43
Walter Clark
Donald E. Claudy DS'44
Richard C. Cornelison DS'43
Charles Christenson – former Trustee
Dr. Benjamin Crue DS'42
Hugh W. Davy DS'28
Jan & John DeBeers DS'32
Raymond Diggle DS'60
Ward J. Fellows DS'31

Mac Finley
Newton Garver DS'43
James Haughey DS'30
Stephen N. Hay DS'42
Mrs. Robert (Dora) Henderson
Kenneth A. Hovey DS'62
Bruce Laverty DS'43
William C. Layton DS'26
Andrew Linehan DS'73
Kenneth Mahony DS'43
James S. Mansfield DS'26
Eliot Marr DS'29
Gene Newman
H.R. Newman DS'35
James R. Olin DS'38
Erik M. Pell DS'41
Roy & Winnifred Pierce DS'40
Ken Pursley DS'57
Roger Randall DS'36
Herbert J. Reich DS'17
Christian Rondestvedt DS'38
Edwin Rust DS'29
George B. Sabine DS'29
Robert Sayre
William Scandling – former Trustee
John Sinning DS'48
Robert & Mary Sproull DS'35
Charles "Chuck" Thompson
Paul H. Todd – former Trustee
James B. Tucker DS'38
Martynas Ycas TA'67

Deep Springs College
HC 72 Box 45001
Dyer, NV 89010



Pranav Bhatnagar '14 irrigates field 4.