



ARCS FOUNDATION NCC MEMBER NEWS FEBRUARY 2022



PRESIDENT'S MESSAGE

Dear ARCS Members,

2022 is an exciting year for our chapter, and we have much to celebrate! We are emerging from the pandemic slowly but surely, in excellent financial shape and **with our mission to advance science more important than ever.** We look forward to getting together in person on **April 28th** at our combined Symposium and Scholar Awards Celebration, ***An Affair to Remember-Celebrating the Minds of the Future***, at the **Palace of Fine Arts** to celebrate our slightly pandemic delayed 50th anniversary, our 2021-22 scholars and our new partnership with UC Merced! We will follow all SF health protocols and do have a pivot plan if the world changes dramatically but all indicators, including conversations with our university partners and polls of our scholars, are that we are headed in the right direction. Our scholars and our Scientific Advisor are very enthusiastic about this opportunity to talk about science in 3D!

We are delighted to officially welcome **University of California, Merced** as our chapter's 7th partner university. Chancellor Muñoz is planning to attend our big event on April 28th and we look forward to celebrating the first UC Merced ARCS Scholars in 2022-23. The NCC Board and both the UC Merced Steering Committee and Exploratory Committee were incredibly impressed with the trajectory of UC Merced, our nation's first 21st century research university (founded in 2005), and see abundant opportunity ahead with UC Merced's state of the art campus, diverse student body, and location in the heart of California.

UC Merced's successful application process has been years in the making, and many have helped shepherd the process, starting in 2014 under **Roulhac Austin's** presidency and then under **Susan Mooradian's**. **Sheila Larsen** and **Marie Lipman**, as then Co-VPs University Relations, and their team initiated the relationship, and both continued as advocates throughout the years along with **Donna Casey**, **Adrianna Pope Sullivan** and many others. Adrianna's unique perspective about the Central Valley and UC Merced's important role in the region, the State and the US as a whole, added particular value and has been greatly appreciated.

Many kudos to University Relations Co-VPs **Chris Brent** and **Leslie Van Houten**, the UC Merced Steering Committee members (**Charlie Campbell**, **Lisa Kirkland**, **Sheila Larsen**, **Adrianna Pope Sullivan** and **Anne Thorson**, along with Chris and Leslie), and the full Exploratory Committee. Also, hats off to University Assessment Chair **Rada Brooks** and her Assessment Committee for evaluating UC Merced based on the rigorous ARCS selection criteria. The team made a compelling case for our partnership with UC Merced to our NCC Board, to our full chapter membership, to the ARCS National UR Committee, and to the ARCS National Board. UC Merced was *overwhelmingly* approved in every vote throughout the process, culminating with approval by the ARCS National Board of Directors on January 22. The entire ARCS UC Merced Team, under Leslie's overall leadership, deserve a huge round of applause for their hard work and dedication to helping young scientists at UC Merced fulfill their potential.

We hope to see you on **April 28th at the Palace of Fine Arts**, if not before at **our February 16th General Meeting at the Francisca Club**. Please let me know if you have any questions. The heart of ARCS is its members and we look forward to seeing you in 3D when you feel comfortable.

-Elizabeth Callander

UNIVERSITY OF CALIFORNIA
MERCED

CALLING ALL MEMBERS

The strength of any organization lies in the quality of its membership.

As a longtime member of the Northern California Chapter of ARCS Foundation, Charlotte Shultz is remembered for making events creative and fun. Donna Miller Casey recalls members dressed up in rain gear with umbrellas doing a rain dance in the lobby of the Hyatt Hotel after a 3-year drought. She also remembers that when Charlotte arrived "the sunshine walked in." She often helped behind the scenes and was respected by all.

This photo of Charlotte and her late husband, the Honorable George P. Shultz (both dressed in SF Giants colors), was taken at our 2014 Scholar Awards Luncheon, at which they were honored. She will be missed, and will not be forgotten.

SCHOLAR ALUM SPOTLIGHT

Fittingly for a self-confessed "nerd from an early age," **Dr. Barbara Jacak** is now a senior scientist in the [Nuclear Science Division](#) at [Lawrence Berkeley National Laboratory](#) (LBNL) after serving as director of the division for six years. Also a physics professor at the [University of California, Berkeley](#), Jacak says, "The most interesting questions in science are, How do things work? How does the universe work? Why is it expanding?"



Her research has focused on [quark gluon plasma](#), a so-called subatomic mix that contains the building blocks of visible matter and mimics conditions believed to exist in the early universe. The plasma can be formed in particle collider experiments at ultra-high temperatures (trillions of degrees). Jacak says that in graduate school she "was interested in the forces inside the nucleus, but what got me really excited was nuclear matter." The types of experiments done at colliders and [accelerators](#) take two or three years to design, then additional years to build, she adds.

Jacak was an ARCS NCC scholar at the University of California, Berkeley in 1975. "I want to thank ARCS. When I was getting started there weren't many women in science," she says. The ARCS recognition "told me I could do it." She earned her PhD at Michigan State University and then went to [Los Alamos National Laboratory](#) for her post-doctoral work. Working at national labs, or doing research at their unique, sophisticated facilities, have been constants for the nuclear physicist. She is now designing experiments for a new collider planned for [Brookhaven National Laboratory](#) (BNL) in New York. She describes national laboratories as "incubators for scientific teams. The labs are often called the crown jewels in the US research enterprise, and they really are."

CALENDAR FEBRUARY-JUNE 2022

Wed, Feb 9, 11:30 am - Board Meeting (Zoom)

Thurs, Feb 10, 5 pm - Science Activities, "Twin Studies" with Dr. Mark Davis of Stanford (Zoom)

Tues, Feb 15, 10 am - Virtual Site Visit, UC Davis

Wed, Feb 16, 10:30 am - General Membership Meeting (in person and by Zoom), Francisca Club

Tues, Feb 22, Noon - Virtual Site Visit, San Francisco State University

Tues, Mar 1, 10 am - Virtual Site Visit, UCSF

Wed, Mar 9, 11:30 am - Board Meeting (Zoom)

Thurs, Mar 10, 5 pm - Science Activities, "Do Aliens Exist?" with Dr. Avi Loeb of Harvard University (Zoom)

Thurs, Apr 7, 5:30 pm - Wine, Women & the Web Social Media Series #3 (Zoom)

Wed, Apr 13, 11:30 am - Board Meeting (Zoom)

Thurs, Apr 14, 5 pm - Science Activities, "One Drop of Blood-Theranos" with Scott Budman (Zoom)

Thurs, Apr 28, 4 pm - Scholar Awards Celebration/Symposium,

"An Affair to Remember-Celebrating the Minds of the Future"

Wed, May 4, 11:30 am - Board Meeting (Zoom)

Wed, May 11, 10:30 am - Annual Membership Meeting, San Francisco Golf Club (in person)

Thurs, May 12 - Science Activities, "The Science of Wine", field trip to Freeman Winery

May, date tbd - New Member Orientation

ARCS NCC ON SOCIAL MEDIA

Follow ARCS NCC on social media! Items are posted weekly on Facebook, Twitter, and Instagram, and at least monthly on LinkedIn. All of our Science Activities and Scholar events held over Zoom are recorded and posted to our YouTube channel, so if you're unable to participate you always have the opportunity to catch up later.

YouTube: <https://www.youtube.com/channel/UCrMA4oJIWdyTjYpcTd6csng>

Facebook: <https://www.facebook.com/ARCSFoundationNorthernCalifornia/>

Twitter: <https://twitter.com/ARCSNorthernCal>

Instagram: <https://www.instagram.com/arcsnorthernca/?hl=en>

LinkedIn NCC Group: <https://www.linkedin.com/groups/13651510/>

LinkedIn National ARCS: <https://www.linkedin.com/groups/3757538/>

Be sure to check out the ARCS NCC website on a regular basis --

<https://northern-california.arcsfoundation.org/>

It's being continually improved and updated and is an excellent source of information, inspiration and access for members and the community at large.

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