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[https://www.arcsfoundation.org/orange\\_county/](https://www.arcsfoundation.org/orange_county/)

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### Mission Statement

#### ARCS- Achievement Rewards for College Scientists

The ARCS Foundation advances science and technology in the United States by providing financial awards to academically outstanding U.S. citizens studying to complete degrees in science, engineering, and medical research.

### Acknowledgements

Thank you Linda Crans and Peyton Paulick for contributing content featured in this newsletter edition.

### Preview of Guest Speakers

#### The Arnold O. Beckman Family Annual Science Lecture & Reception

Eyal and Leya Aronoff

Eyal traces his interest in autism to the time his daughter Leya was diagnosed with autism at age two and a half.

When Leya was eight, she was treated with Sensory Enrichment Therapy that enabled her to overcome the barriers that kept her behind. However, even after Leya overcame the symptoms of autism, she did not find her "voice" until age thirteen, when she discovered poetry. Today, Leya is a vibrant young woman. Her autism is but a distant memory.

Read more about these speakers in the next edition of the "pH Reading" and at

[www.mendability.com](http://www.mendability.com).

<http://andseewhereittakesyou.tumblr.com>

### Donate to ARCS Foundation

#### Orange County

#### Why Give?

A gift to ARCS Foundation is an opportunity to contribute to America's scientific and economic future by supporting the best of our nation's science and engineering graduate students. For corporations, foundations and individuals, ARCS Foundation provides a unique and cost-effective method to provide direct support for the most promising scholars at **UC Irvine**.

Volume 1, Issue 3



## Orange County Chapter

September 5, 2014

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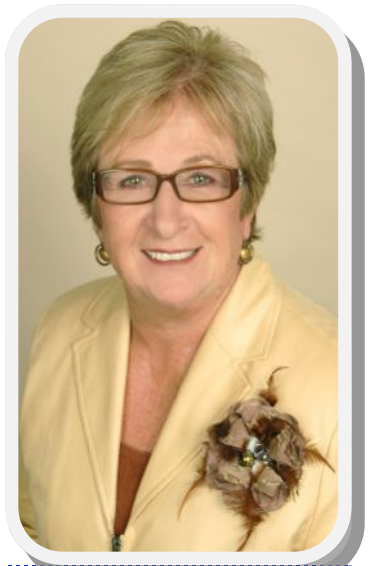


## pH Reading From The President

As summer is ending and fall is upon us, I hope everyone enjoyed some beach time and special events with family and friends over the past several months.

As we begin the fall season, several ARCS Orange Chapter members and I will be traveling to Salt Lake City to attend the 2014-15 ARCS National Annual Meeting. During that meeting one of our members, Linda Crans, will be honored as an "ARCS Light" for her extraordinary service and personal leadership benefitting the Orange County Chapter. Her dedication to supporting the ARCS mission of advancing science in our world today and into the future has been a lifetime effort. I will be attending the "ARCS Light" luncheon to recognize and support Linda's efforts. Please read more about Linda in this issue of the newsletter.

Also, I would like to invite you, your family, neighbors and friends to attend the Arnold O. Beckman Annual Lecture and Reception planned for October 2, 2014, featuring Eyal and Leya Aronoff, on the topic of Sensory Enrichment Therapy for Treatment of Autism. Please see event details below for time and place.



Ellen M. Lewis, MSN, RN, FAAN

Orange County Chapter  
President, 2014-2015

### Upcoming Events

- Sept. 17-20 National ARCS Annual Meeting-UTAH
- Sept. 24, 2014 3:00 PM BOD Meeting
- **October 2, 2014 6:00PM Reception, 7:00 PM The Arnold O. Beckman Family Annual Science Lecture**
- Scholar Awards Dinner 3/11/2015

# ARCS Light Award 2014-15

## Orange County Chapter



Sponsored by Pat Beckman and Rose Marie Nesbit, Linda L. Crans became an ARCS Foundation, Inc. Orange County Chapter member in 2006 and since has held various Board positions including Parliamentarian, Recording Secretary, and Membership Vice President.

After a 35 year career in the healthcare and cosmetics industries, Ms. Crans is an acknowledged business leader. She joined Beckman Instruments.(now Beckman Coulter), Inc., in 1974, as a research associate biochemist, held positions of increasing responsibility, and was appointed Vice-President in 1996. Her specialties include Program Management, Business Systems Planning & Implementation, Strategic & Operational Planning, and Product Development & Supply Chain Quality Process Improvement. Ms. Crans currently serves as Board Vice Chair at Western University of Health Sciences in Pomona, CA and Lebanon, OR.

**Linda L. Crans**

Ms. Crans graduated summa cum laude from the University of Pittsburgh, PA, with a Bachelor of Science degree in Biology. She authored technical articles for customer and trade publications and developed and moderated a 2-1/2 day Business Awareness Training Program. A life-long learner, Ms. Crans completed and applied certificate programs in corporate pension strategy development, global business management and strategic planning. Ms. Crans is also a member of Phi Beta Kappa, American Association of Clinical Chemists (AACC) and American Society of Quality (ASQ),

Her interests include healthcare system process improvement, advancing STEM education and research, and increasing diversity of governance boards. Ms. Crans enjoys time with family and friends, travel, healthy living and reading.



# ARCS Scholar Highlight

Dr. Peyton Paulick, an NPI Scholar (2013-14), received her B.S. in Bioengineering at the University of California, San Diego, graduating with Provost's Honors from Revelle College. As an undergraduate she worked as a technical assistant in a neurobiology lab, conducting research on synapse formation and function using human pluripotent stem cell derived neurons.

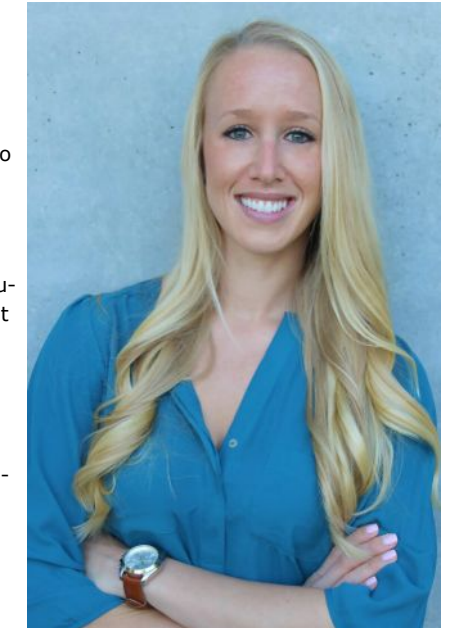
During her doctoral work at UC Irvine, Peyton's research involved a variety of assistive medical technologies including a novel hearing device, balance and gait monitoring insole, and human physiological sensor and feedback systems. Her work resulted in 9 peer reviewed publications, numerous conference presentations, and two patents. Her work has been featured in the Orange County Register, Calit2 Interface Magazine, UC Irvine Engineering News, German television research special ZDF 'Abenteuer Forschung: Licht und Gesundheit', and the German Tölzer Kurrier.

Peyton also served as the manager of the California Institute for Telecommunication and Information Technology's (Calit2) eHealth Collaboratory at UC Irvine that explores novel ways to deliver healthcare in the home setting. In this role she managed four high priority projects, designed the collaboratory workspace, established infrastructure and equipment, and led all center project demonstrations and lectures.

Peyton received a Whitaker Foundation International Fellowship during her graduate studies to work with collaborators at Ludwig Maximilians Universal's Generation Research Program in Munich, Germany. Her work developed a novel chromatic pupillometry system to stimulate and record the human pupil light reflex to provide insight into pupil response characteristics and as a potential diagnostic marker for neurological disorders.

Peyton's primary research project developed a novel hearing technology called the Direct Hearing Device. This device functions by coupling to the eardrum and mechanically driving the middle ear system to transmit sound information. This device is extremely small, invisible from the outside, and does not require surgery. This method of mechanically driving the eardrum solves problems associated with currently available hearing aids such as feedback, occlusion, and aesthetics. This device has been validated in cadaveric temporal bones and most recently has undergone two human performance tests where the device successfully recreated pure tones, speech, and music for the subject.

The generous support of Judy Greenspon and NPI Services has allowed Peyton to attend conferences to present her work on various projects. The ARCS Foundation has provided not only personal and financial support, but has connected her professionally with mentors and collaborators around Orange County, and for this she is extremely thankful.



**Peyton Paulick**



Pictured from left to right: Peyton Paulick with Dr. Yaser Ghavami, Dr. Hamid Djailian, and Dr. Mark Bachman.