

National Engineers Week San Diego 2014 Awards Banquet

Friday February 28, 2014, 6–9:30pm

The Forum at Hahn University Center

University of San Diego Campus

5998 Alcala Park, San Diego, CA 92110

(Free parking at the Mission Parking Structure
at Main Entrance after 5pm)

Keynote Speaker:
Dr. Todd P. Coleman



***"Smart Skin Sensors
and Analytics in the
Cloud to Advance the
Frontiers of
Wearable Health"***

Student Reservations: Limited to the first 20 student submittals. Contact Sandi J. Wong McKellips at 77angels@cox.net with inquiries only, NOT reservations. Students are encouraged to attend. Several societies and company/corporate sponsors have graciously donated seats allocated for students. Student reservations shall be by financial commitment, (\$5 in lieu of the \$40).

However, in order to place your name on the student listing, you MUST MAIL the following by Feb, 6, 2014:

1. Financial commitment \$5
2. Name
3. College affiliation ([USD](#), [SDSU](#), [UCSD](#), [City College](#), [Southwestern](#), [Mesa College](#)), major and year (freshman, sophomore, junior, senior or graduate student)
4. Email
5. Address and phone number
6. Meal selection (roasted chicken, roasted salmon, mushroom ravioli)

Failure to provide ANY of the items delineated in 1-6, shall be cause to eliminate your reservation. Mail to: Sandi Wong McKellips, NEW SD Student Liaison, 888 Brockton, El Cajon, CA 92020. All must be postmarked by February 6, 2014. Students shall be contacted via email by February 15, 2014 as to placement. If we are unable to place you in corporate/society spots, you will be contacted and your \$5 will be returned.

National Engineers Week in San Diego 2014

February 16th – 22nd

The National Engineers Week Foundation is a formal coalition of more than 100 professional societies, major corporations and government agencies dedicated to ensuring a diverse and well-educated future engineering workforce. This is done by increasing awareness and interest in engineering and technology careers among young students and by promoting pre-college literacy in math and science. National Engineers Week (NEW) also raises public understanding and appreciation of engineers' contributions to society. Although NEW is a nation wide event, each major county puts together their own EWeek and San Diego county does just that. The week in San Diego has many events with the culmination being the awards banquet which sponsored by the San Diego County Engineering Council (SDCEC) and hosted on the beautiful campus of the University of San Diego (USD) at the Forum at Hahn University Center.

Last year's contributing societies were:

AIAA	American Institute of Aeronautics and Astronautics
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating and Refrigeration Engineers
ASME	American Society of Mechanical Engineers
ASQ	American Society for Quality
CSPE	California Society of Professional Engineers
IEEE	Institute of Electrical and Electronic Engineers
NSBE	National Society of Black Engineers
SAME	Society of American Military Engineers
SDSU	San Diego State University
SEAOSD	Structural Engineers Association of San Diego
SHPE	Society of Hispanic Professional Engineers
SME	Society of Manufacturing Engineers
SWE	Society of Women Engineers
USD	University of San Diego

Each year one of the many professional engineering societies leads the committee to put on National Engineers Week. This year the general chair is the Institute of Electrical and Electronic Engineers (IEEE) and the theme is: **“Discover ‘e’: Let’s Make a Difference.”** This year’s San Diego National Engineers Week will have events such as Engineers Day at Grossmont Mall and MATHCOUNTS at UCSD to go along with the Awards Banquet.

The awards banquet will take place on Feb 28th at the University of San Diego (USD). Along with dinner, the night will include presenting awards to individual and organizations from the San Diego County region in the categories of:

- **Outstanding Engineer**
- **Outstanding Engineering Educator**
- **Outstanding Engineering Project**
- **The Dr. Thomas Avolt Kanneman Outstanding Engineering Service Award**

Keynote Speaker: Dr. Todd P. Coleman, Associate Professor, Bioengineering, UCSD **“Smart Skin Sensors and Analytics in the Cloud to Advance the Frontiers of Wearable Health”**

Dr. Coleman will discuss recent efforts by his research group in combining skin-integrated wearable sensors with multi-modal analytics algorithms that can be efficiently implemented in the cloud. The end result is a suite of human-computer interface applications that on the one hand, blur the distinction between man and machine, while on the other, promotes humans and computers playing to their individual strengths. Some examples will be provided within the context of perinatal health and chronic disease management.

Todd P. Coleman received B.S. degrees in electrical engineering (summa cum laude), as well as computer engineering (summa cum laude) from the University of Michigan. He received M.S. and Ph.D. degrees from MIT in electrical engineering, and did postdoctoral studies at MIT in neuroscience. He is currently an Associate Professor in Bioengineering at UCSD, where he directs the Neural Interaction Laboratory and co-Directs the Center for Perinatal Health. His research is highly inter-disciplinary, lying at the intersection of bio-electronics, medicine, and machine learning. He is conducting research in wearable health by wedding his research group's expertise in large-scale analytics with their recent development of "epidermal electronics", featured in Science in 2011. Current applications of those synergies include perinatal health, chronic disease management, and cognitive monitoring during aging. Dr. Coleman is a science advisor for the Science & Entertainment Exchange (National Academy of Sciences) and his research has been featured on CNN, BBC, and the New York Times.