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SENTINEL



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As quickly as it began, it looks like fall semester is almost over on campus. Although here at CIEE, November is a time where new projects are starting to ramp up! Read about one of them and more in this issue of the Sentinel.

upcoming **EVENTS**

November 15th

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[World to Install Over One Trillion Watts of Clean Energy By 2023](#)

CIEE NEWS

Dr. Sascha von Meier Wins Research Grant from NSF's "The Future of Work at the Human-Technology Frontier" Program

The National Science Foundation (NSF) is investing over \$25 million in 26 projects to advance the cognitive and physical capabilities of workers in the context of human-technology interactions, and we are pleased to announce that our own Dr. Sascha von Meier has won funding through this grant program!

Dr. Von Meier, alongside Anurag Srivastava, Paul Whitney, Anjan Bose, Adam Hahn, Saeed Lotifard, Gautam Biswas and Abhishek Dubey, won the award for their project on augmenting and advancing cognitive performance of control room operators for power grid resilience. From their project abstract: "The proposed project will integrate principles from cognitive neuroscience, artificial intelligence, machine learning, data science, cybersecurity, and power engineering to augment power grid operators for better performance."

"The landscape of jobs and work is changing at an unprecedented speed, driven by the development of new technologies that have moved into an expanding array of manufacturing, knowledge, and service occupations, says Dawn Tilbury, NSF's assistant director for Engineering. "These changes promise benefits to the nation in terms of increased productivity, opportunity for innovation, the creation of new industries and occupations as well as sustained global leadership."

The award for the three-year project amounts to \$3 million dollars. Congratulations to Dr. Von Meier and her team, and we look forward to seeing how the project progresses!

around **CAMPUS**

Research News: Electrifying sub-Saharan Africa

New UC Berkeley research, published in Nature Energy, suggests that solar energy could be central to providing affordable and reliable energy to citizens of sub-Saharan Africa who currently live without power. Jonathan Lee, a PhD candidate in the Energy and Resources Group (ERG) and Associate Professor Duncan Callaway analyzed over 10 years of NASA's solar data in order to determine the cheapest approaches for developing a sub-Saharan standalone solar energy system. To learn more about the project, [click here](#).

From the BERC Blog: Technonomics: Economics for Scientists Buiding the Future Physical World

Our friends at the Berkeley Energy & Resources Collaborative recently published an article on their blog giving a rundown on some concepts in economics that researchers need to understand to implement the cutting edge solutions they're developing and to get them out into the world. In partnership with Cyclotron Road, a fellowship program for entrepreneurial scientists and engineers, they lay out some of the basic principles for turning research into a commercial product, pitching its value to investors, and ultimately bringing it to market.

For more details, you can read their whole blog post [here](#)!



upcoming **EVENTS**



BERCshop: Women In Energy 2018

While women make up more of the the clean energy field than other energy sectors, women are nevertheless a minority in clean energy workplaces. In the second annual Women in Energy workshop hosted by the Berkeley Energy & Resources Collaborative (BERC), women in clean energy will gather to discuss the various opportunities and tactics they can use to bridge the gap of female representation in this sphere.

The workshop will take place on November 15th, from 6 to 8 pm in Spear Tower, San Francisco. Panelists will represent a broad range of expertise and professional experiences within the industry and will discuss the field, their career paths, offer advice, and answer questions on these issues. All interested women are encouraged to attend, and can visit the [BERC website](#) for more information. Food and beverages will be provided.

Cleantech to Market Symposium

On November 30th from 9 am to 4:30 pm, the Energy Institute at Haas will be hosting a symposium to showcase this year's Cleantech to Market projects. Cleantech to Market (C2M) is a UC Berkeley partnership between graduate students, entrepreneurs, researchers, and industry professionals to help accelerate the commercialization of emerging cleantech. In this cycle, the Cleantech to Market program explores everything from machine learning adaptations for energy efficiency to metal organic frameworks that can lower gas separation costs. To learn more about the cleantech projects for 2018 and how to register for the event, click [here](#).

monthly SPOTLIGHT



Monthly Spotlight: Behavior, Energy, and Climate Change (BECC) Conference

The BECC Conference is the premier national dialogue focused on understanding individual and organizational behavior and decision-making related to energy usage, global warming, and environmental sustainability. This year, the BECC conference was held on Capitol Hill, in Washington D.C., from October 7th through 10th, and the theme was *Building Bridges*. The conference, which incorporates a variety of disciplines into the climate decision architecture, ultimately aims to strengthen connections between environmental researchers, policymakers, implementers, and consumers.

The 2018 BECC hosted an incredible variety of speakers — including Senator Whitehouse of Rhode Island, a panel of journalists from USA Today, former Michigan Governor and visiting Berkeley faculty member Jennifer Granholm, UK climate

communication expert George Marshall, and a panel of the foremost researchers in environmental social science. Over the course of four days, it entertained forty-two separate sessions on a myriad of topics— from climate change artists, to electrification and electric vehicles, to low income/hard to reach customers. The events were arranged under the joint collaboration of the American Council for an Energy-Efficient Economy (ACEEE), Stanford University, and the California Institute for Energy and Environment (CIEE).

CIEE's Therese Pepper, and affiliate Chris Jones served as two of the co-chairs for the conference. Therese, as an integral member of the conference staff for many years now, inspired the theme Building Bridges, which emphasizes the need for increased connectivity between environmental stakeholders in order to produce climate positive actions. Chris, as a central force behind the conference's programming, worked behind the scenes to convene a variety of said environmental stakeholders that participated in presentations and poster sessions throughout the conference. Together, Therese and Chris were key players in propagating a decision-making dialogue on climate change at BECC this year.

In all, the conversations and research shared during BECC helped to foster an engaging environment and successful conference. Learn more about the conference, donate, or get involved in next year's BECC [here](#). A special thanks to all of those who were integral in running the 2018 BECC!





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Contact us at: connorclark@berkeley.edu
4th Floor, Sutardja Dai Hall, University of California, Berkeley, CA 94720

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California Institute for Energy & Environment · 448 Sutardja Dai Hall · University of California, Berkeley · Berkeley, CA 94720 · USA

