

Séminaire

Le lundi 1^{er} mars 2021, 13h

Lien MS Teams à venir

Le séminaire se déroulera en anglais.

Seminar

Monday, March 1, 2021, 1 p.m.

MS Teams link TBD

Creating positive feedback loops to accelerate the energy transition

Sarah Kurtz, University of California Merced

Abstract: Photovoltaic solar electricity has grown much faster than was expected. Continuation of the historical growth rate would enable solar to generate as much electricity as the entire world uses by ~ 2030. California, in particular, has taken a leading role; 22% of electricity generated in the last year in the state of California was from solar energy. However, growth of solar is now slowing, both worldwide and in California. As the state of California and many others around the world seek to move away from fossil fuels to a zero-carbon energy system, it will be critical to maintain the momentum. Positive feedback has been helpful in the growth of solar so far. This talk will discuss how positive feedback loops can help accelerate the energy transition by taking a balanced approach. The talk will also discuss how choices we make in designing our new energy system can reduce or increase the size of the problem.

Bio: Sarah Kurtz obtained her PhD in 1985 from Harvard University and now works at the University of California Merced after more than 30 years working at the National Renewable Energy Laboratory, in Golden, CO. She is known for her contributions to developing multijunction, GaInP/GaAs solar cells, supporting the Concentrator Photovoltaic industry, and leading efforts on photovoltaic performance and reliability. Her work has been recognized with a jointly received Dan David Prize in 2007, the Cherry Award in 2012, C3E Lifetime Achievement Award in 2016, and induction into the National Academy of Engineering in 2020. At the University of California Merced, she is working both to help the university grow and to support the Energy Transition through a variety of studies, including a current effort on long-duration storage.



TOP-SET est un programme de formation FONCER du CRSNG en puissance optoélectronique ayant pour but de façonner une cohorte de personnel hautement qualifié détenant des connaissances approfondies en systèmes optoélectroniques pour rejoindre les rangs d'équipes de recherche et développement.

Pour de plus amples renseignements sur TOP-SET, veuillez consulter create-topset.eecs.uottawa.ca/fr.

NSERC CREATE Training in Optoelectronics for Power: from Science and Engineering to Technology (TOP-SET) is a training program that aims to form a cohort of highly qualified personnel with comprehensive understanding of optoelectronic systems, capable of joining advanced R&D teams.

For further details regarding TOP-SET, go to create-topset.eecs.uottawa.ca.



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