

## Séminaire

Le lundi 16 janvier 2023, 13h

ARC 233 et [MS Teams](#)

\*Le séminaire se déroulera en anglais.\*

## Seminar

Monday, January 16, 2023, 1 p.m.

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### Photovoltaic activities in Sherbrooke: From material to system Gwénaëlle Hamon, Université de Sherbrooke

**Abstract:** Solar cells used in concentrated photovoltaics (CPV) are multi-junction solar cells. In industry, it consists of a triple junction solar cell made of GaInP and GaAs grown on Ge by epitaxy. If this technology reaches efficiencies above 44 %, its cost remains higher than Si technologies. At Université de Sherbrooke, research on CPV is conducted from the material to the system: new substrate approaches for substrate recycling, clean room micro-fabrication for new cell architectures, new packaging methods for CPV and micro-CPV, and outdoor measurements in a solar park. An overview of these activities and the coming projects will be presented.



**Bio:** Gwénaëlle Hamon has been an assistant professor at Université de Sherbrooke since March 2022 in the department of Electrical and Computing Engineering. She received her Engineering Degree in Physics and Materials in 2014 at Grenoble INP – Phelma, France, and her PhD in material science at École Polytechnique, Palaiseau, France. In 2021, she was part of the first cohort of the Université de Sherbrooke Claire-Deschênes postdoctoral fellowships. Her work is mainly focused on clean room fabrication of III-V materials and other materials for photovoltaic and optoelectronic devices.

**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.

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