

[Scdt] SCDT-FlexE Centre Weekly Tuesday Seminar-01.06.2021 at 7:30 PM

1 message

SCDT, IIT Kanpur <scdt@iitk.ac.in>
To: scdt@lists.iitk.ac.in

Mon, May 31, 2021 at 11:06 AM

Zoom Meeting for joining the webinar:

<https://zoom.us/j/99863678964?pwd=ZVJvdFN5T1UyQjdZbmXwS0htRUJOUT09>

Meeting ID: 998 6367 8964

Passcode: 064022

Dear Colleagues,

I would welcome you to attend the SCDT-FlexE Centre Weekly Tuesday Seminar by our colleague Ms. Madhu Rawat. The details of the seminar (to be given in webinar format) are given below:

Title: "Move Towards Benign solvents"

Date: 1st June, 2021 (Tuesday)

Time: 7:30 PM to 8:30 PM

Presentation will be on zoom. The link is given above.

The webinar abstract and a brief bio of the speaker are given below. Please join if you are in a position to do so.

With regards
S.K.I.

Abstract of talk by Ms. Madhu Rawat:

Many high efficiency devices are often fabricated using halogenated (chlorinated) solvents which are not good for human health as well as being potential risk for the environmental. In order to pursue large scale production of the devices, it would therefore be prudent to use the non-halogenated eco-friendly processing steps. In this webinar, the use of benign solvents for the fabrication of OPV devices will be discussed. Optimization has been carried out on the electron transport layer & photo active thin films processing conditions by varying the film thickness and annealing temperatures for optimum power conversion efficiency (PCE) in the devices. After optimisation on thin film processing conditions, the device efficiencies achieved were close to the efficiency of processed reference devices.

About the Speaker:

Ms. Madhu Rawat is currently a project scientist at SCDT and National Centre for Flexible Electronics (FlexE Centre), IIT Kanpur. She completed her master's degree from Kanpur University in Organic Chemistry before joining the Semiconductor Laboratory, Department of Electrical Engineering, IIT Kanpur, where she was involved in organic materials synthesis and OLED and OPV device fabrication. Subsequently in 2015, she shifted to SCDT-FlexE center and has been working on OPV fabrication.

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