



Date: 30/06/2020

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Webinar-1

Intelligent Multi-Electrode Arrays for Real-Time Treatment, Monitoring of Antipsychotics_Brief Report

Webinar on the topic “Intelligent Multi-Electrode Arrays for Real-Time Treatment, Monitoring of Antipsychotics”, on 30th June 2020 was organized by the Department of Electronics and Communication Engineering, Sai Vidya Institute of Technology, Bengaluru in association with IEEE SVIT EMBS Chapter. The Speaker for the webinar was Dr. Rajendra Prasad Shukla, Postdoctoral researcher, Nanobioelectronics Laboratory (NBEL), Department of Biomedical Engineering, Ben-Gurion University of the Negev, Israel.

Online webinar Platform: Google Meet Application

Webinar meeting Link: <http://bit.ly/EMBSWebinarlive>

Timings: 10:30 AM to 11:30 AM

Total Number of Registrations: 165

More than 150 participants are registered for the webinar and more than 115 Participants actively participated from various Industry professional's/ Faculty member's/ Research scholars/ students from many reputed institutions were witnessed the webinar. The webinar is started at 10:30 AM with formal Welcome for the speaker, Dr. Rajendra Prasad Shukla by Dr. Narayan K, Mentor-IEEE SVIT student branch, Dean (R&D) and professor Department of ECE followed by Welcome speech by Dr. Venkatesha M, Branch counsellor, Associate Professor, Department of ECE. Brief introduction about the speaker was given by Mr. Sourabh Bhat, Student Secretary, IEEE-SVIT student branch.

Dr. Rajendra Prasad Shukla gave an detailed very informative talk on Intelligent Multi-Electrode Arrays for Real-Time Treatment, Monitoring of Antipsychotics. Vote of thanks was given by Bina R, student Chair, IEEE SVIT student branch. The feedback form was shared to all the participants at the end of the session we received more than 115 feedback forms and E-certificate was sent to all the registered participants.

More than 150 participants are registered for Webinar.

Webinar Coordinators:

Patron: Dr. Narayan K, Advisor, IEEE SVIT Student Branch, Dean (R&D) and Professor Department of ECE

Faculty Coordinators

1. **Dr. Venkatesha M** –Branch Councillor, IEEE SVIT Student Branch
2. Mr. Pavan Kumar E, Assistant Professor, Department of ECE
3. Ms. Monisha Raj, Assistant Professor, Department of ECE

Student Coordinators

1. **Mr. Sourabh Bhat**, Student secretary, IEEE SVIT student Branch
2. **Ms. Bina R**, Student Chair, IEEE SVIT Student Branch

Photographs taken during the Webinar :



BGU **r-GO Modification of Gold Microelectrode**

Current (µA)

Potential vs Ag/AgCl (V)

microelectrodes

The key parameters for deposition are: number of CV cycles, scan rate, electrodeposition solution concentration, and voltage range.

Meeting details

People (105) Chat

Dilip Chandra 10:48 AM
Now got it.. put a pin on the second Rajendra prasad shukla

Bina R 10:49 AM
Those who are not able to find the ppt please follow these steps there are two rajendra prasad shukla in participant list, one with his image and another with his slide in people section

Chaya B M 10:49 AM
PPT is visible, please go to people and select his name, just click on his image to pin to presentation.

Prasad DN 10:50 AM
ppt is enabled and visible. We all watching presentation

You 10:50 AM
Dear sir, please Pin to Rajendra Kumar Shukla presentation.

PRAVEEN KUMAR SHARMA 10:50 AM
ppt is not visible

Send a message to everyone

Electrochemical Sensor for *In Situ* Analysis CLZ

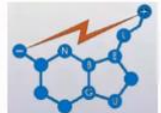


- Tested microelectrodes coating:
- Carbon nanotubes encapsulated in biopolymer chitosan
 - Reduced graphene oxide



Microscale electrode modified with different electrocatalytic materials (e.g. Unimol, CV, and Cu)

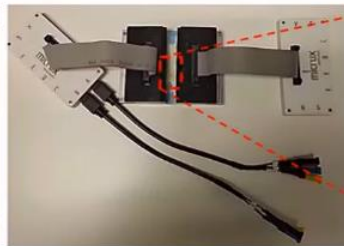
Electrochemical Characterization: Setup



Multichannel Ivium Potentiostat



Micrux Multielectrode Array Platform

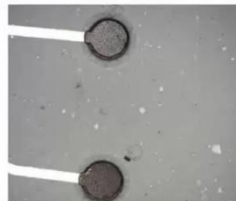
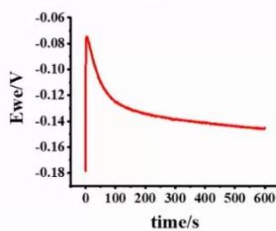
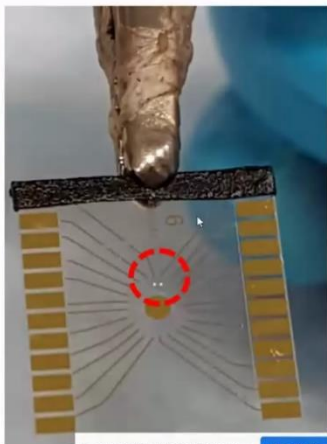
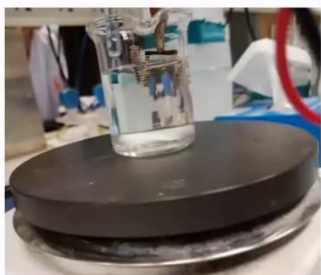


Electrochemical data was acquired simultaneously from 18 microelectrodes and 3 Pt- black microelectrodes separately

REC



Silver Electroplating



Anubhab Biswas has left the meeting

Meeting details

People (100) Chat (1)

- Pranav B P
- Prasad DN
- Praveen B R
- PRAVEEN KUMAR SHARMA
- Raghunandan S
- Rainak Sharma
- rajendra prasad shukla (Present)
- rajendra prasad shukla
- Revanth M
- Rini Ann Thomas

