



Koneru Lakshmaiah Education Foundation

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Date of Event: 04-10-2021 to 08-10-2021

Name of the Event: International Workshop on Flexible Electronics

Venue: Online

No. of Participants: 271

Introduction: An increasing demand for miniaturized, cost effective, and reliable sensors capable of monitoring multiple environmental, physical, chemical, and biological parameters thus requires the development of novel sensing devices with advanced capabilities. The last few years have seen a noticeable increase in the development of wearable technology devices that are often worn on the human body. These devices provide the user with information about various physiological parameters and surroundings.

Flexible hybrid electronics (FHE) is a rapidly emerging field, with significant commercial potential that drives investments in research and development within the electronic manufacturing industry. FHE draws upon two primary threads: printed electronics (PE) and other advanced deposition/assembly processes, and semiconductor devices and packaging technologies. *FHE devices are a natural bridge between the silicon driven IC industry and the PE industry.* Printing is an additive process that has expanded into electronic applications where electronic materials are deposited selectively using electrically functional inks in combination with standard printing processes.

Topics Covered:

Flexible and Stretchable Electronics, Textile Electronics, Organic Electronics, Batteries for MEMS, Smart devices, Smart watches, and health care.

Benefits:

1. Possibility to form a new research group in the University to carry out various activities in this field.
2. Possibility to conduct active and contemporary research in the field of flexible and Hybrid Electronics in collaboration with speakers.
3. Possibility to interact with the researchers of international repute to carry out internships and projects for II, III, IV B.Tech and M.Tech students as well.

Advisory Board:

1. Dr. Abhinav Gaikwad, University of California, Berkeley & Moses Lake Industries, Portland, USA
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10. Dr.Niko Munzenriender, University of Sussex, UK
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12. Dr.Ashish Garg, Indian Institute of Technology, Kanpur
13. Dr. Sree Parekh Tiwari, Indian Institute of Technology, Jodhpur
14. Dr.Aftab Hussain, IIT, Hyderabad
15. Dr.Rinky Sha, IIT, Kalyani
16. Dr.Sanjeev Sambandan, Indian Institute of Science, Bangalore
17. Dr.Ashwini Agarwal, Indian Institute of Technology, Delhi
18. Dr.Manjeet Jassal, Indian Institute of Technology, Delhi
19. Dr.Anuj Dhawan, Indian Institute of Technology, Delhi
20. Dr.Parasuram Swaminadhan, Indian Institute of Technology, Madras
21. Dr. Arun Tej Mallajyosyula, Indian Institute of Technology, Guwahati
22. Dr. N.N.Murty, Indian Institute of Technology, Tirupati
23. Dr.D.K.Goswami, Indian Institute of Technology, Kharagpur
24. Dr. Jameel Akhtar, CEERI, Pilani

All the speakers/resource person are having extensive knowledge in the field of flexible hybrid sensor and allied electronics are shown interest to deliver their current research inventions in the workshop. Based on the availability and scope of content to be delivered we may choose and finalize any 10 members.

Time Schedule:

S.No.	Day	Slot:1 (Indian Standard Time)	Slot:2
0	04.10.2021	17.30-18.00 Inaugural Session	
1	04.10.2021	18.00-19.30	19.30-21.00
2	05.10.2021	18.00-19.30	19.30-21.00
3	06.10.2021	18.00-19.30	19.30-21.00
4	07.10.2021	18.00-19.30	19.30-21.00
5	08.10.2021	18.00-19.30	19.30-21.00

0	08.10.2021	21.00-21.30 Valedictory
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(Timings are kept beyond class work schedule to encourage more no. of student participations)

Day wise Schedule:

KL Electronics & Communication Engineering

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04.10.2021 Session I
(6 PM - 7.30 PM. IST)

Dr. Niko Munzenrieder
Head of the Flexible Electronics Laboratory
Honorary Senior Lecturer in Sensor Technology
Sensor Technology Research Centre
School of Engineering and Informatics
University of Sussex, UK &
Associate Professor,
Free University of Bozen-Bolzano, Italy

Topic:
Flexible Transistors and Circuits for Soft Systems

A FIVE-DAY ONLINE INTERNATIONAL WORKSHOP ON
RESEARCH OPPORTUNITIES IN
**FLEXIBLE HYBRID ELECTRONICS -
MANUFACTURING PROCESSES
& APPLICATIONS**
(Printable-Bendable-Stretchable-Wearable-Textile - Edible Electronics)
4th - 8th October, 2021

04.10.2021 Session II
(7.30 PM - 9 PM. IST)

Dr. Abhinav Gaikwad
Manager (R&D), Moses Lake Industries,
Portland, USA
& Researcher, Electrical Engineering &
Computer Science,
University of California, Berkeley, USA

Topic:
Flexible Batteries

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05.10.2021 Session I
(6 PM - 7.30 PM. IST)



Dr. Bhaskar Dudem
Researcher
Advanced Technology Institute (ATI)
University of Surrey, UK.

Topic:
Flexible and Wearable Battery-
Free Triboelectric Sensors

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MANUFACTURING PROCESSES
& APPLICATIONS**

(Printable-Bendable-Stretchable-Wearable-Textile - Edible Electronics)

4th - 8th October, 2021

05.10.2021 Session II
(7.30 PM - 9 PM. IST)



Dr Nagaraju Goli
Research Associate
Department of Materials
Faculty of Engineering,
Imperial College London, UK

Topic:
Wearable Textile and Fiber-Based Supercapacitors



06.10.2021 Session I
(6 PM - 7.30 PM. IST)



Dr. Dipti Gupta
Professor,
Plastic Electronics & Energy Laboratory,
Indian Institute of Technology Bombay, India

Topic:
Flexible Electronics for Biomedical Applications

A FIVE-DAY ONLINE INTERNATIONAL WORKSHOP ON
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MANUFACTURING PROCESSES
& APPLICATIONS**

(Printable-Bendable-Stretchable-Wearable-Textile - Edible Electronics)

4th - 8th October, 2021

06.10.2021 Session II
(7.30 PM - 9 PM. IST)



Dr. Mario Caironi
Senior Researcher Tenured - Principal Investigator
Printed and Molecular Electronics
Center for Nano Science and Technology @ Polimi
Italian Institute of Technology, Milan, Italy

Topic:
Edible Electronics

07.10.2021 Session I
(6 PM - 7.30 PM. IST)



Dr. Luisa Petti

Associate Professor, Sensing Technologies Lab,
Free University of Bozen-Bolzano, Italy

Topic:
Printed Electronics for Sensing and
Biosensing Devices and Systems

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**FLEXIBLE HYBRID ELECTRONICS -
MANUFACTURING PROCESSES
& APPLICATIONS**

(Printable-Bendable-Stretchable-Wearable-Textile - Edible Electronics)

4th - 8th October, 2021

07.10.2021 Session II
(7.30 PM - 9 PM. IST)



Dr. Vivekananthan Venkateswaran

Researcher,
University of Surrey, UK.

Topic:
Hybrid Nanogenerators for Self-Powered
Portable and Wearable Electronics

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08.10.2021 Session I
(6 PM - 7.30 PM. IST)



Dr. Eugenio Cantatore

Head, Emerging Technologies, Integrated Circuits Group,
Eindhoven University of Technology (TU/e),
The Netherlands.

Topic:
Printed Organic Electronics on a Flexible Foil

A FIVE-DAY ONLINE INTERNATIONAL WORKSHOP ON
RESEARCH OPPORTUNITIES IN
**FLEXIBLE HYBRID ELECTRONICS -
MANUFACTURING PROCESSES
& APPLICATIONS**

(Printable-Bendable-Stretchable-Wearable-Textile - Edible Electronics)

4th - 8th October, 2021

08.10.2021 Session II
(7.30 PM - 9 PM. IST)



Dr. Abdellatif Ait Lahcen

Researcher, Sensors Lab,
King Abdullah University of Science and Technology
(KAUST), Saudi Arabia.

Topic:
Flexible Electrochemical Biosensors

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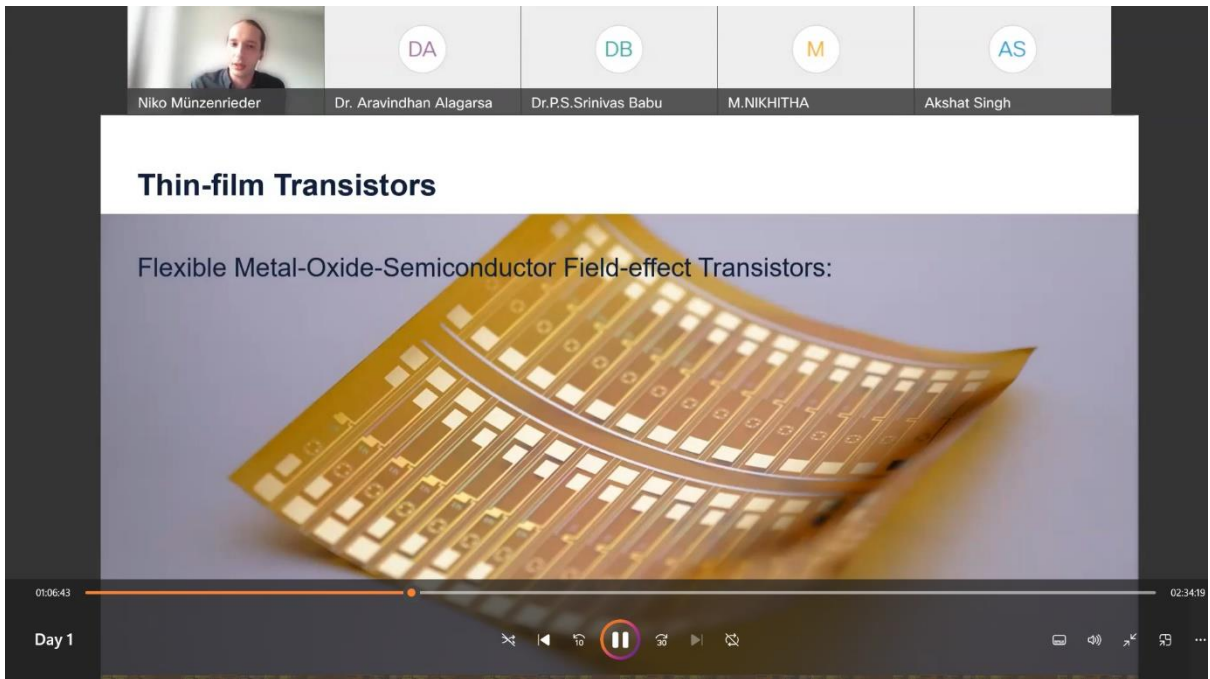
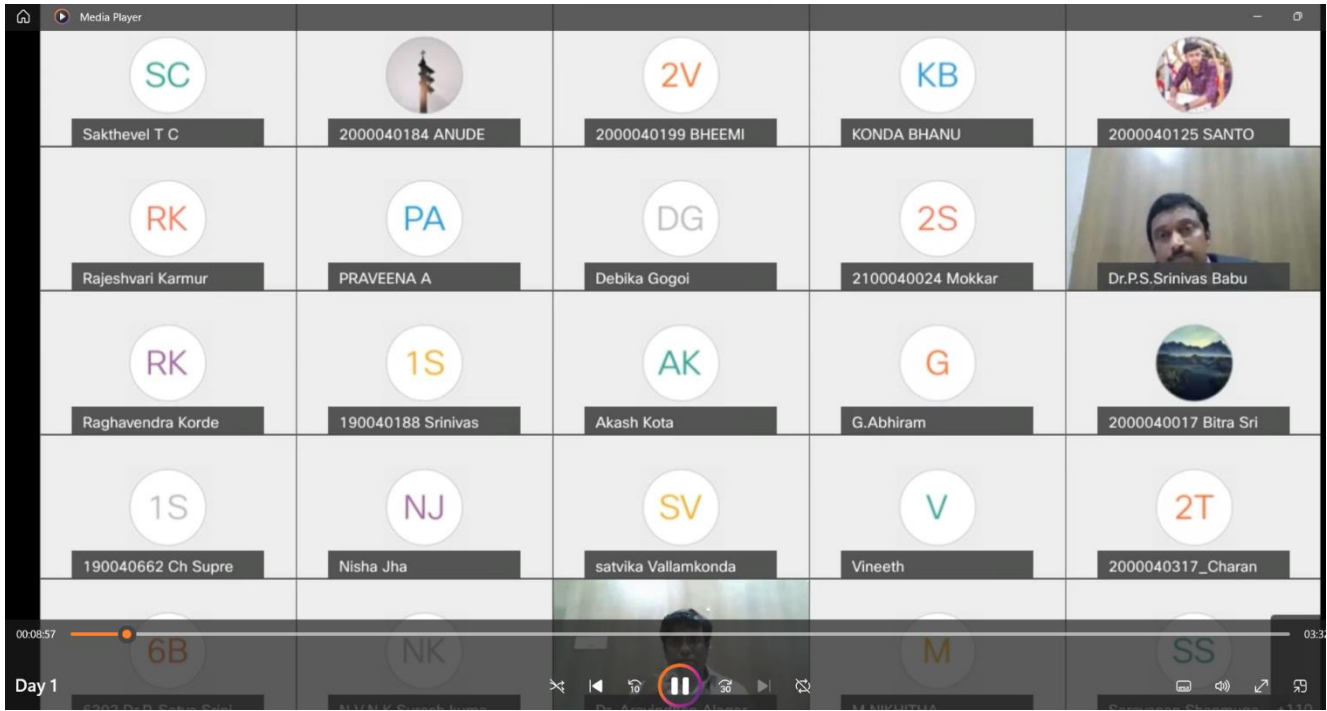
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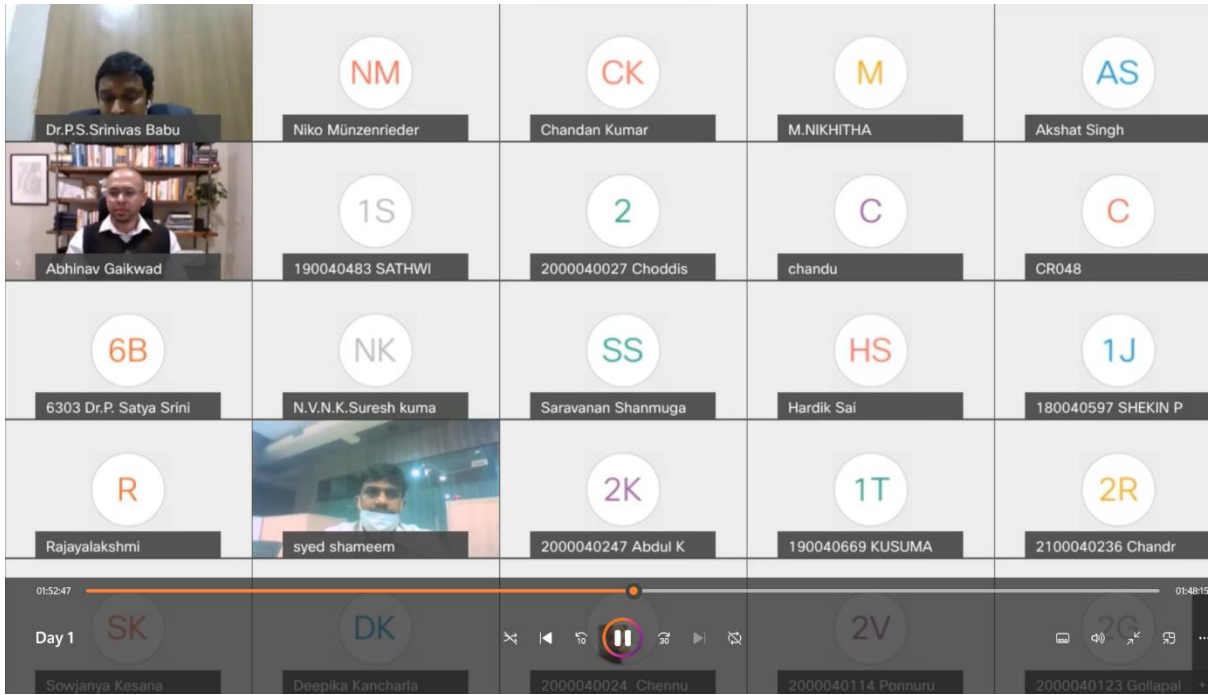
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Session: Dr.Niko Munzenrieder



Session: Dr.Abhinav Gaikwad



Session: Dr. Bhaskar Dudem

Media Player

1S 190040483 sathwic san Nagaraju Goli BD Bhaskar Dudem MD Macherla Durga Sai Dee AK Akash Kota

Ragone Plot

Imperial College London

$E = \frac{1}{2} CV^2$
 $P = \frac{E}{\Delta t}$

E = Energy density (Wh/kg),
 C = Specific capacitance (F/g),
 V = Potential window (V),
 P = Power density (W/kg),
 Δt = Discharge time (s)

Important parameters:

- ✓ Energy density (Energy per weight or volume)
- ✓ Power density (Power per weight or volume)
- ✓ Fast charging
- ✓ Cost

01:28:15

Day 2

Chem. Soc. Rev., 2014, 43, 3303-3323 5

Session: Dr Goli Nagaraju

Media Player

DB N.V.N.K.Suresh kumar NK DG Dipti Gupta MC Mary Catherine C CR048

Paradigm shift

Heart Glove for real-time measurements of cardiac activity (Prof. J. Rogers Group, UIUC)

E-Dura: Implantation on the surface of the brain or spinal cord (Prof. Stephanie Lacour Group, EPFL)

Smart patch for drug-delivery

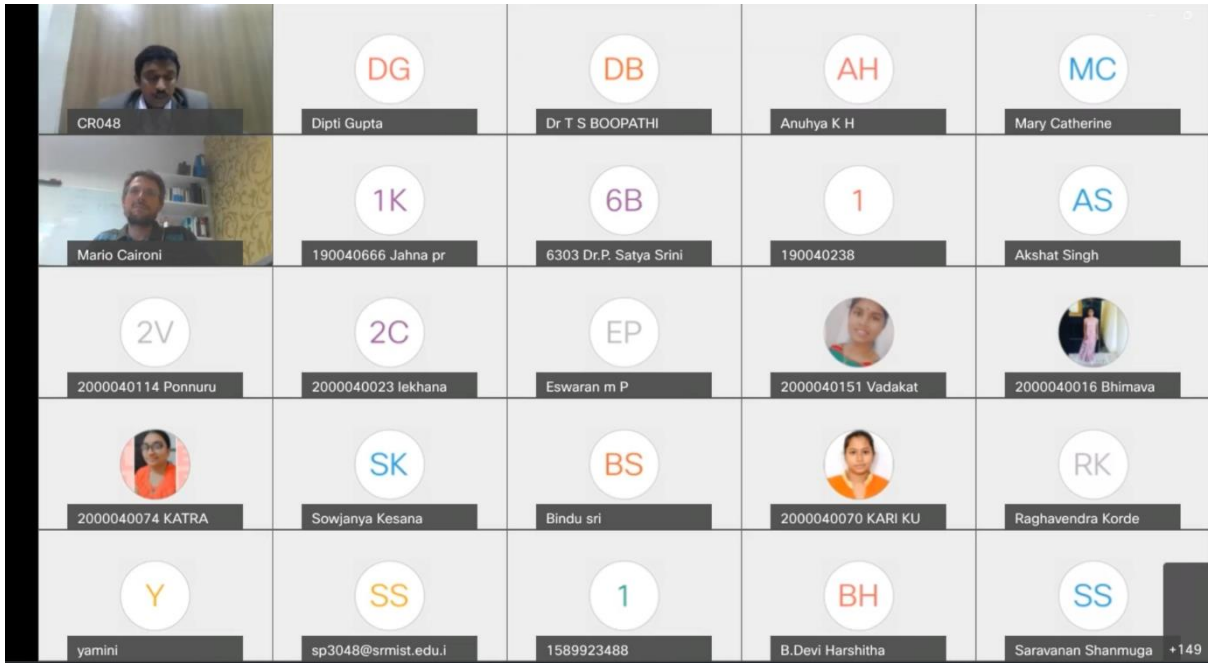
- Organic Electronics
- Collaboration with Neurosurgeon (NIMS, Hyderabad)- BIRAC project

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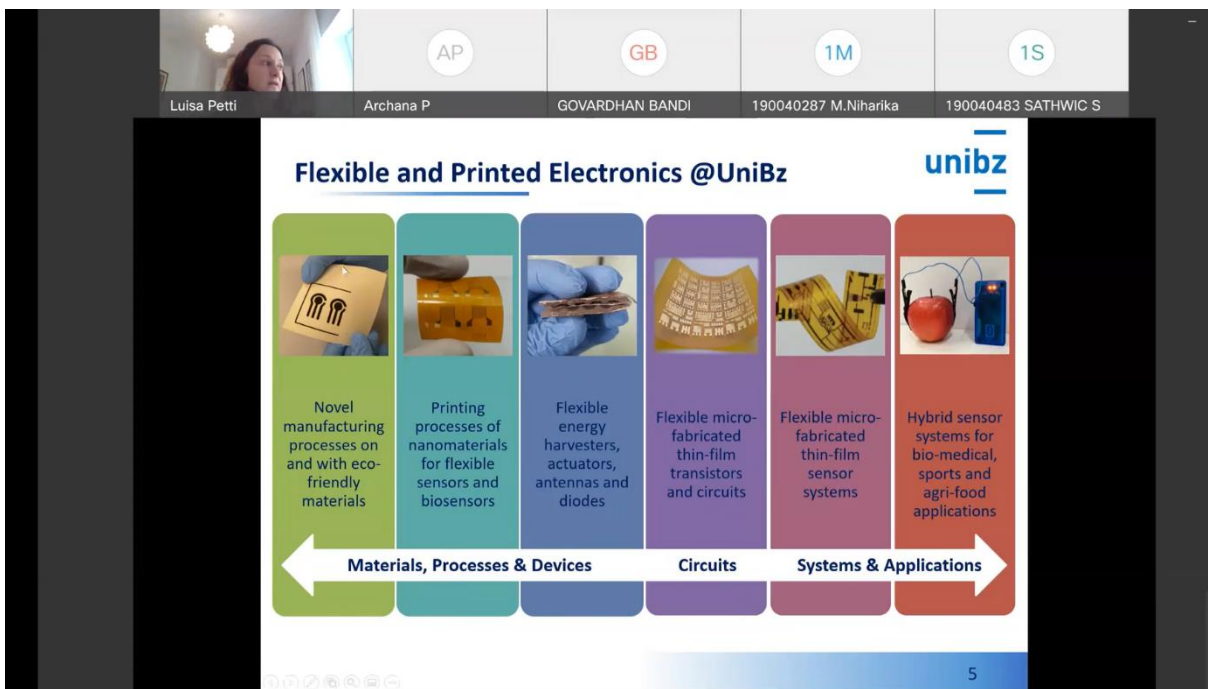
Day 3

17 +172

Session: Dr.Dipti Gupta



Session: Dr.Mario Caironi



Session: Dr.Luisa Petti

CR048 Vivekananthan Venkates Dr B Amarendra Reddy Lakhpat Singh Purohit Dr. Sugumar D

Real-time Application of Scavenging Road side Waste Mechanical Energy

(a) Output voltage response of C-PNG2 located on road, when the motorcycle, bicycle and human walking act on it. (b) Digital photographs of forward/reverse conditions of motorcycle, bicycle and human walking on C-PNG2. (c) Real-time stability test of C-PNG2 device under motorcycle motions over a period of 500 seconds (d) demonstration of powering up five blue LEDs using the C-PNG2 device.

14

Session: Dr.Vivekananthan Venkateswaran

Eugenio Cantatore Lakhpat Singh Purohit CR048 DAPHNE MARY JOHN Navaneeth.P

Flexible Thin-Film Transistor(TFT) Technology for sensors: rationale

- The flexible and large area electronics enables lots of sensing channels for affordable cost
- The flexible electronics concentrates information from many channels on a few interconnects with the Si chip, enabling cost effective Si electronics too

00:13:28

Day 5

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TU/e

Session: Dr.Eugenio Cantatore

2. A NEW ELECTROCHEMICAL DIAGNOSTIC KITS FOR BREAST CANCER BIOMARKER (HER2)

Sensitivity and Selectivity

Sensor Performance

- Recoveries for 10 ng/ml and 100 ng/ml are 88.8% and 81.1%.
- Highly selective in human serum
- LOD up to 0.08 ng/ml, for HER2.

Integration of LSP-Au@NS electrode into point-of-care device

Day 5

Session: Dr. Abdullatif Ait Latchen

Convener
Dr.P.S.Srinivasa Babu
Professor – ECE

Dr.M.Suman,
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