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Organizing committee

All the faculty members of Electronics and
Communication Engineering Department

Introduction:

Integration of complementary metal oxide semiconductor (CMOS) system with micro-electromechanical systems (MEMS) leads to a lower packaging and improvement in reliability, cost and Size. MEMS devices have been widely Used even in our daily life, e.g., MEMS accelerometers for automobiles airbags, MEMS gyroscopes for electronic stability program (ESP) in automobile braking systems, MEMS tire pressure sensors; digital micro mirror device (DMD)-enabled portable projectors, MEMS inkjet printers, MEMS resonators as frequency references etc. The objective of the workshop is to get familiar with the issues encountered in integration of MEMS into established CMOS technology and the possible solutions of this integration issue.



Coordinators:

Dr. Koushik Guha (Asst. Professor, Department of ECE)
Dr. M. Kavicharan (Asst. Professor, Department of ECE)
Dr. Bijit Choudhuri (Asst. Professor, Department of ECE)

Organized By:

National MEMS Design Center @ NIT Silchar

Department of Electronics and Communication Engineering
National Institute of Technology, Silchar
Assam - 788010, India

(An Institute of National Importance under MHRD, Govt. of India)

**Five-Days National Workshop on
“Recent Trends in Innovative
CMOS-MEMS Technologies and
applications: Hands on Learning”
(11-15 Sept -2020)**

Sponsored By,

TEQIP-3

Technical Education Quality Improvement Programme

In Association with

IEEE ED NIT Silchar Student Branch Chapter

In Collaboration with
IIC, NIT SILCHAR



About NIT Silchar:

National Institute of Technology (NIT) Silchar (an Institute of National Importance under MHRD, Govt. of India), was established in 1967 as Regional Engineering college (REC) Silchar Assam. In 2002 it is upgraded to NIT. It is situated on the banks of Barak river with an astounding green campus. The campus is fully covered by green trees making it the one of the beautiful institute in India. NIT Silchar offers Six UG and Ten PG courses. The Department of ECE offers B.Tech, M.Tech and Ph.D degrees. The institute is well known for its notable work in technical field. The institute is having well equipped laboratories with state of art scientific Tools.

Department of Electronics and Communication Engineering
National Institute of Technology Silchar

Assam-788010, India

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Topics to be covered:

- Advancements in CMOS Technology
- Advances in MEMS Devices
- Fabrication Aspects of CMOS & MEMS
- Integration of CMOS and MEMS
- Design challenges in CMOS and MEMS devices
- Applications of CMOS-MEMS Devices
- Hands on learning of CMOS-MEMS devices and its applications.

Benefits of Attending Workshop:

CMOS device technology is matured in all circuit design and fabrication aspects. There are a plenty of novel topics that are presently hot topics of electronics world. MEMS Technology is relatively a new technology that people wouldn't have heard the benefits of MEMS Devices. The workshop focus on enlightening the research in the field of MEMS and CMOS state of art aspects. Participants will acquire both MEMS and CMOS advances in-depth. The workshop is intended to end up with great knowledge of advantages of MEMS-CMOS integration and its applications.

REGISTRATION PROCESS:

- Fill up the Google form for registration.
- Confirmation email will be sent.
- Number of participants is limited to 200

Dr.Koushik Guha

Assistant Professor
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Technology Silchar

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Plenary Speakers:

- Dr. Jacopo Iannacci, Fondazione Burno Kessler, Italy
- Prof. Prem Pal, IIT Hyderabad
- Prof. Roy Paily Palathinkal, IIT Guwahati
- Prof. Sudeb Dasgupta, IIT Roorkee
- Dr. Pradeep Dixit, IIT Bombay
- Mr. Sripadaraja K, IntelliSense Software, Bangalore
- Dr. (Mrs). S. Kanthamani, TCE, Madurai
- Prof. K. Srinivasa Rao, KL University
- Mr. Bikram K. Mahajan, Purdue University, USA
- Prof. S. Baishya, NIT Silchar
- Dr. K.L. Baishnab, NIT Silchar
- Dr. Koushik Guha, NIT Silchar
- Dr. T R Lenka, NIT Silchar
- Dr. M. Kavicharan, NIT Silchar
- Mr. Sourav nath, NIT Silchar

REGISTRATION:

No Registration Fee, and Online registration link:
<https://forms.gle/7vXPhGGE7QjWeZxu5>

IMPORTANT DATES:

Last date (online registration): 08-09-2020
Confirmation by E-mail: 09-09-2020
Duration: 11-09-2020 to 15-09-2020

ELIGIBILITY

This program is open to Faculty members, Research scholars, PG & UG Students, and Industrial personnel.

“Recent Trends in Innovative CMOS-MEMS Technologies and Applications: Hands on Learning”

Dr. Bijit Choudhuri

Assistant Professor
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National Institute of
Technology Silchar

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Ph: 9862609941

CERTIFICATION:

E-certificates will be provided to those participants who have attended the program without any absenteeism.

Dr. M. Kavicharan

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