PREAMBLE

Scheme for Promotion of Academic and Research Collaboration (SPARC) is a Ministry of Human Resource Development (MHRD), GOI initiative to improve research ecosystem in India. It supports national premier educational institutions by facilitating academic and research collaborations between Indian institutions and the best and selected institutions across the world's 28 nations. The collaborative educational networks will work on common issues of national or international relevance. It encourages international faculty to visit Indian institutions to teach courses and conduct workshops for the benefit of Indian researchers and students in the selected research area. Also, it funds Indian students to visit and access the premier laboratories worldwide for training and experimentation. As an outcome patents, monographs, and world-class publications will be produced.

ABOUT THE WORKSHOP

A new field of interdisciplinary research has emerged around "Lab-on-a-Chip" (LoC), which has widespread applications in the field of medical diagnostics and other healthcare domains; called Digital **M**icrofluidic **B**iochip (**DMFB**). The recent integration of IoT and cyber physical systems further enhance the efficiency of such DMFBs and impacts various domains including healthcare technologies.

Sponsored by the SPARC Project "*Design Optimization of Digital Microfluidic Biochip*" (SPARC Project ID: P1037), this workshop will play as an advanced guide for the participants to explore the theory and applications of DMFB emphasizing on several inter-related scientific domains and it will open more research options for them to continue.

ABOUT THE DEPARTMENT

The Department of Computer Science and Technology (CST) was established in 1982. Since its inception, the department has played an important role in developing a vibrant and forward-looking academic environment. Currently, the department offers B.Tech., M. Tech., and Ph.D. programs. The department of CST always maintains state of the art infrastructure and facilities for advanced research and consultancy. The department was accredited by National Board of Accreditation (NBA) as an 'A' grade department. The department was also honored as the DST-FIST sponsored department in 2004. The department was ranked 10 in a nationwide survey conducted by Silicon India in 2012.

CALL FOR PARTICIPATION

Interested students, faculty members, scientists, working professionals may register themselves through the following link.

https://forms.gle/TtHjDvR7bhE7pfiP8

Deadline for registration: 09th Aug 2021 (till 3.00 PM)

Please note that there is no registration fee. However, prior registration is mandatory to attend the workshop. Seats will be reserved on a first come first serve basis.

ORGANIZING COMMITTEE

Chief Patron
Dr. Parthasarathi Chakrabarti, Director, IIESTS

Patrons
Dr. Sudip Kumar Roy, Dean (Academic)
Dr. Subhasis Bhaumik, Dean (R&C)

Chairman
Dr. Asit Kumar Das, Head, Dept. of CST

Members
Dr. Susanta Chakraborty, Coordinator
Dr. Prasun Ghosal, Jt. Coordinator
Dr. Malay Kule
Dr. Samit Biswas
Dr. Ananya Barui

Sponsored by
Scheme for Promotion of Academic and Research Collaboration (SPARC), MHRD, Govt. of India

International Webinar on

Cyberphysical Digital Microfluidic Biochips in Healthcare Technologies and Applications

August 10 - 12, 2021

ORGANIZED BY

Department of Computer Science and Technology
**Indian Institute of Engineering Science and Technology, Shibpur
Howrah – 711 103
West Bengal**