

Pacific Forum on Flexible Electronics

Venue: Four Points by Sheraton Bintan, Indonesia

Dates: 27 – 29 June 2025

Overall Agenda

Time	27 Jun (Fri)	28 Jun (Sat)	29 Jun (Sun)
Morning		Plenary Talk	Invited Talks / Roundtable
		Invited Talks / Roundtable	
		Lunch	Lunch / End of Event
Afternoon	Registration	Invited Talks / Roundtable	
		Editors Dialogue	
Evening	Plenary Talk	BBQ Banquet	
	Reception Dinner		
	Invited Talks / Roundtable		

Day 1 – 27 June 2025 (Friday)

Time	Programme	Moderators
4:00 PM – 6:00 PM	Forum Registration	
6:00 PM – 7:00 PM	Plenary Talk by Prof John A. Rogers (Northwestern University) “Flexible Bioelectronic Systems as Epidermal and Organoid Interfaces”	Chair: Xiaodong Chen, NTU
7:00 PM – 8:00 PM	Reception Dinner	
8:00 PM – 9:00 PM	Topic 1: Nanomaterials for Flexible Devices Dae-Hyeong Kim (Seoul National University) “Bio-inspired Electronic Eye” Limei Tian (Texas A&M University) “Wearable Sensors for Continuous Biochemical Monitoring” Wenlong Cheng (The University of Sydney) “Towards Deployable Nano-enabled Soft Wearable Sensors”	Tsuyoshi Sekitani, The University of Osaka
9:00 PM	End	

Day 2 – 28 June 2025 (Saturday)

Time	Programme	Moderators
9:00 AM – 10:00 AM	Plenary Talk by Prof Takao Someya (The University of Tokyo) “Electronic skins for personalized healthcare”	Chair: Xue Feng, Tsinghua University
10:00 AM – 10:20 AM	Tea Break	
10:20 AM – 11:10 AM	Topic 2: Organics and Liquid Metal for Flexible Devices • Tomoyuki Yokota (The University of Tokyo) “Organic Photonic Devices for Sensing” • Wei Lin Leong (Nanyang Technological University) “Augmenting the Functionality of Bioelectronics and Soft Robotics through Organic Mixed Conductors” • Hiroki Ota (Yokohama National University) “Liquid Metal Stretchable Devices Coupled with Machine Learning”	Dae-Hyeong Kim, Seoul National University
11:10 AM – 12:00 PM	Topic 3: 2D and 3D Architectures • Lei Wei (Nanyang Technological University) “Flexible Functional Fibers and Fabrics” • Yihui Zhang (Tsinghua University) “3D Architected Flexible Electronic Devices and Systems” • Seokwoo Jeon (Korea University) “3D Nanostructured PDMS for Flexible Applications”	Yonggang Huang, Northwestern University
12:00 PM – 1:00 PM	Lunch	
1:00 PM – 2:00 PM	Topic 4: System Engineering: Power and Circuits for Wearables and Implantables • Kenjiro Fukuda (The University of Osaka) “Ultraflexible Solar Cells for Wearables” • Yamin Zhang (National University of Singapore) “From Biocompatible Batteries to Miniaturized Biomedical Devices” • Changsheng Wu (National University of Singapore) “Imperceptible Biomonitoring: Contact-Free and Battery-Free” • Youfan Hu (Peking University) “Flexible Integrated Circuits for Advanced Bioelectronics”	Vincent Dusastre, Université Côte d’Azur

2:00 PM – 3:00 PM	Topic 5: Implantable Tissue-Interfacing Bioelectronics • Xuanhe Zhao (Massachusetts Institute of Technology) “Adhesive Nonfibrotic BioElectronic” • Sihong Wang (The University of Chicago) “Immune-Compatible Bioelectronics” • Tsuyoshi Sekitani (The University of Osaka) “Intravascular Neural Interfaces with Soft and Blood-Compatible Electronics” • Jang-Ung Park (Yonsei University) “3D Printed Neural Interfaces Using Liquid Metals”	Xiaodong Chen, Nanyang Technological University
3:00 PM – 3:20 PM	Tea Break	
3:20 PM – 4:20 PM	Topic 6: Wearability of Epidermal Bioelectronics • Naoji Matsuhisa (The University of Tokyo) “On-Skin Wearables: From Conformable to Unperceivable” • Zijian Zheng (The Hong Kong Polytechnic University) “Enabling Permeability for Soft Electronics” • Fengwei Huo (Nanjing Tech University) “Design and Application of Leather Electronics” • Tae-il Kim (Sungkyunkwan University) “Minimizing Motion Artifact in Bioelectronics”	Nanshu Lu, The University of Texas at Austin
4:20 PM – 5:10 PM	Topic 7: Probing Deeply from the Skin Surface • Takafumi Uemura (The University of Osaka) “Low-Noise Wearable Sweat Sensing” • Yu Xin Liu (National University of Singapore) “Solid-State Epidermal Biomarker Sensing” • Xue Feng (Tsinghua University) “Flexible circuit-free system via passive modulated ultrasound for wireless sensing”	Reinhold Dauskardt, Stanford University
5:10 PM – 6:10 PM	Editors Dialogue on Challenges & Future Directions in Flexible Electronics • Dr Wei Fan, Senior Editor, <i>Nature Materials</i> • Dr Liqian Wang, Senior Editor, <i>Nature</i> • Dr Esther Levy, Co-Editor-in-Chief, <i>Advanced Materials</i> • Prof John Rogers, Deputy Editor, <i>Science Advances</i> • Prof Dae-Hyeong Kim, Senior Associate Editor, <i>Science Advances</i> • Prof Tsuyoshi Sekitani, Associate Editor, <i>ACS Nano</i> • Prof Yihui Zhang, Deputy Editor, <i>Science Advances</i>	Host: Nanshu Lu, The University of Texas at Austin

	Prof Wenlong Cheng, Scientific Editor, <i>Nanoscale Horizon</i>	
6:10 PM – 6:45 PM	Free Time	
6:45 PM – 8:45 PM	Beachside BBQ Banquet	
8:45 PM	End	

Day 3 – 29 June 2025 (Sunday)

Time	Programme	Moderators
9:00 AM – 10:00 AM	Topic 8: Conformal Human-Machine Interaction Nanshu Lu (The University of Texas at Austin) <i>“E-Tattoos and E-Skins Bridging Humans and Robots”</i> Xinge Yu (City University of Hong Kong) <i>“Soft Actuators and Sensors for Human-Machine Interaction”</i> Chuanfei Guo (Southern University of Science and Technology) <i>“Flexible iontronic sensing and its applications in robotics and health care”</i> Kuniharu Takei (Hokkaido University) <i>“Multimodal sensor patch powered by reservoir computing”</i>	Yihui Zhang, Tsinghua University
10:00 AM – 11:00 AM	Topic 9: Intelligent Flexible Systems Nripan Mathews (Nanyang Technological University) <i>“Applying Neuromorphic Principles to Novel Electronics”</i> Young Min Song (Gwangju Institute of Science Technology) <i>“Bioinspired Artificial Vision Systems”</i> Jia Liu (Harvard University) <i>“Agentic AI for Flexible Electronics”</i> Zhiyuan Liu (Shenzhen Institutes of Advanced Technology) <i>“Living Electronic Devices”</i>	Wenlong Cheng, The University of Sydney
11:00 AM – 11:10 AM	Closing Remark	Xiaodong Chen, NTU
11:10 AM – 12:20 PM	Lunch	
12:20 PM	Forum Concludes	