Core-to-Core Program
研究拠点形成事業

JSPS Core-to-Core Program
Kickoff Seminar

International Joint Research Center for Next-Generation Environmental and Energy Devices Pioneered by Plasmonics

September 28–30, 2026
Niigata University

Participating institutions

- Niigata University, Japan
- Chulalongkorn University, Thailand
- Universiti Teknologi Malaysia, Malaysia
- Indian Institute of Technology (BHU), India

Program

Day 1 — Monday, September 28: Kickoff, institutional overviews, research presentations, laboratory tour, and welcome reception

Day 2 — Tuesday, September 29: Research presentations and discussion on future research exchange and collaboration

Day 3 — Wednesday, September 30: Special Bilateral Session: Niigata University–IIT(BHU) Joint Symposium

Day 1 — Monday, September 28, 2026

Kickoff & Research Introduction

Venue: Large Meeting Room, Graduate School of Science and Technology, Niigata Univ.

Time	Program
9:00–9:25	Registration
9:30–9:40	Opening Remarks — Prof. Toshiyuki Someya, President of Niigata University
9:40–9:45	Welcome Remarks — Prof. Takeshi Yamauchi, Dean, Faculty of Engineering, Niigata University
9:45–9:55	Introduction of Participants
9:55–10:15	Overview of the JSPS Core-to-Core Program & Institutional/Research Overview of Niigata University Prof. Akira Baba
10:15–10:30	Greeting & Institutional/Research Overview — Chulalongkorn University Prof. Sukkaneste Tungasmita
10:30–10:45	Greeting & Institutional/Research Overview — Universiti Teknologi Malaysia Prof. Nurzal Effiyana binti Ghazali
10:45–11:00	Greeting & Institutional/Research Overview — Indian Institute of Technology (BHU), Varanasi Prof. Rakesh Kumar Singh
11:00–11:10	Coffee Break
Session Chair: Prof. Kazunari Shinbo, Niigata University	
11:10–11:30	NU-1: Prof. Atsushi Masuda, Niigata University Reliability and recyclability of photovoltaic modules
11:30–11:50	CU-1: Prof. Kanet Wongraveee, Chulalongkorn University Fancy Plasmonic Nanostructures: Chemical-assisted Fabrication and Opportunities for Cross-Disciplinary Applications
12:00–13:30	Lunch & Networking — Bento Lunch in the Meeting Room
Session Chair (Afternoon I): Prof. Yusuke Iida, Niigata University	
13:30–13:50	UTM-1: Prof. Norzanah Rosmin, Universiti Teknologi Malaysia Shaping a Sustainable Future through Smarter Energy Management
13:50–14:10	IIT(BHU)-1: Prof. Samim Mustafa, IIT(BHU) Vibration-based Structural Health Monitoring and Bridge Weigh-in-motion for Fatigue Damage Detection
14:10–14:30	NU-2: Prof. Selvan Bellan, Niigata University Solar thermal energy conversion and fuel production
14:30–14:50	CU-2: Prof. Warakorn Yanwachirakul, Chulalongkorn University Fabrication and Characterization of CVD-Grown Graphene for Energy-Related Applications
14:50–15:00	Coffee Break
15:00–16:20	Laboratory Tour: Research Facilities and Ongoing Projects at Niigata University

Time	Program
Session Chair (Afternoon II): Prof. Akira Baba, Niigata University	
16:20–16:40	UTM-2: Prof. Fazila Binti Mohd Zawawi, Universiti Teknologi Malaysia Tropical Ultra-Low Wind Speed Distributed Wind Technology
16:40–17:00	IIT(BHU)-2: Prof. Santosh Kisan Pagire, IIT(BHU) Beyond Visible-Light Photocatalysis: Expanding the Frontiers of Molecular Synthesis
17:00–17:20	NU-3: Prof. Yasutaka Ueda, Niigata University Global Project-Based Learning in Engineering Education: Fostering Generic Research Skills and SDGs-Oriented Social Impact
17:20–17:40	Discussion on Opportunities for Collaboration
18:15–	Welcome Reception / Dinner

Day 2 — Tuesday, September 29, 2026

Research Exchange & Future Collaboration

Venue: Large Meeting Room, Faculty of Engineering, Niigata Univ.

Time	Program
Session Chair: Prof. Tomohiko Hayashi, Niigata University	
9:30–9:40	Summary of Day 1 / Introduction to Day 2
9:40–10:00	CU-3: Prof. Sukkaneste Tungasmita, Chulalongkorn University Recycling the end-of-life solar panel, using the ultrasonic delamination technology
10:00–10:20	UTM-3: Prof. Nurzal Effiyana binti Ghazali, Universiti Teknologi Malaysia Engineers for Sustainable and Climate-Resilient Futures
10:20–10:40	NU-4: Prof. Kazuhiro Gotoh, Niigata University Skin care for Si solar cells using nanostructured composite materials
10:40–10:50	Coffee Break
10:50–11:35	Discussion on Future Research Exchange and Collaboration
11:35–11:50	Summary and Next Steps
11:50–12:00	Closing Remarks
12:00–13:00	Farewell Lunch & Networking — Bento Lunch in the Meeting Room

Day 3 — Wednesday, September 30, 2026

Special Bilateral Session: Niigata University–IIT(BHU) Joint Symposium

Venue: Large Meeting Room, Faculty of Engineering, Niigata Univ.

Time	Program
9:30–9:35	Opening
9:35–9:45	Welcome Address — Prof. M. Satish-Kumar, Vice President for International Research Partnerships, Niigata University
9:45–9:50	Remarks — Prof. Rakesh Kumar Singh, IIT(BHU)
Session Chair: Prof. Masayuki Yagi, Niigata University	
9:50–10:10	IIT(BHU)- 3: Prof. Rakesh Kumar Singh, IIT(BHU) Light, Imaging and Beyond: From Light Shaping to Advanced Optical Imaging
10:10–10:30	NU-5: Prof. Samuel Choi, Niigata University Optical Comb Based Interferometric Techniques for Precision Profilometry and Tomography
10:30–10:50	IIT(BHU)-4: Prof. Abir Ghosh, IIT(BHU) Electrohydrodynamic Instabilities at Complex-Fluid and Porous Interfaces: From Self-Organised Patterning to Degradation in Energy Storage Devices
10:50–11:10	NU-6: Prof. Jun Yu, Niigata University Key Challenges in Deep Learning: From Performance to Trustworthiness
11:10–11:25	Discussion on Future Academic Exchange and Collaboration
11:25–11:30	Closing Remarks
11:30	End of JSPS Core-to-Core Program Kickoff Seminar