

Program Schedule
The 2nd International Symposium on Sustainable Healthcare Innovation
for Future Society 2024
February 1 – 2, 2024
at Northern Science Park Building, Chiang Mai

February 1, 2024

Time	Detail
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Venue:	Rice Grain Auditorium
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8.00 - 9.00	Registration @ <i>Rice Grain Auditorium</i>
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9.00 – 9.05	Welcoming message: Assoc. Prof. Dr. Pitiwat Wattanachai Chair of Symposium 2024 Director of Science and Technology Park (STeP), Chiang Mai University
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9.05 - 9.15	Introductory Speech: Prof. Dr. Wonho Choe Co-founder of Symposium, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
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9.15 - 9.20	Congratulatory Remark: Prof. Dr. Man Sung Yim Vice President of International Office Korea Advanced Institute of Science and Technology (KAIST) Republic of Korea
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9.20 - 9.30	Opening Remark: Prof. Pongruk Sribanditmongkol, M.D., Ph.D. President of Chiang Mai University
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9.30 – 9.40	Photography session
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9.40 - 10.00	Innovation Address: KAIST Efforts for Innovation Prof. Dr. Man Sung Yim Vice President of International Office Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
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February 1, 2024

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Session Chair	<i>Assoc. Prof. Dr. Pitiwat Wattanachai</i> Chair of Symposium 2024 Director of Science and Technology Park (STeP), Chiang Mai University
10.00 - 10.30	Plenary Speaker: 1 Prof. Dr. Chan Beum Park, REPUBLIC OF KOREA Topic: Photonic Carbon Dots, Polydopamine Coating, and Lignin Nanofibers for Healthcare Applications
10.30 - 11.00	Plenary Speaker: 2 Prof. Dr. Nipon Theera-Umpon, THAILAND Topic: Biomedical Engineering Roles in Healthcare Innovation
11.00 - 11.10	-----Refreshments-----
11.10 - 11.40	Plenary Speaker: 3 Assoc. Prof. Dr. Pavel Baroch, CZECH REPUBLIC Topic: Magnetron sputtering as a key enabling plasma technology – from the basics to the advanced concepts
11.40 - 12.10	Plenary Speaker: 4 Dr. Seungmin Ryu, REPUBLIC OF KOREA Topic: KFE's R&D status of plasma technology for bio application
12.10 - 13.10	-----Luncheon-----
Venue:	NSP Exhibition Hall (B1)
Session Chair	<i>Prof. Dr. Komgrit Leksakul</i> Chaing Mai University, Thailand
13.10 - 13.25	Invited Speaker: 1 Prof. (distinguished) Pasuk Mahakkanukrauh, M.D., THAILAND Topic: Cadaveric preservation solution
13.25 - 13.40	Invited Speaker: 2 Asst. Prof. Dr. Minee-Liane Choi, REPUBLIC OF KOREA Topic: New therapeutic intervention for Neuro-Degenerative, -Psychological & -Developmental diseases & disorder
13.40 - 13.55	Invited Speaker: 3 Asst. Prof. Dr. Choncharoen Sawangrat, THAILAND Topic: Sparking Innovation: The Journey from Research to Market in Thai Plasma Technology with the Plasma Thailand Consortium

February 1, 2024

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13.55 - 14.10	Invited Speaker: 4 Dr. Jae Sang Lee, REPUBLIC OF KOREA Topic: Status and Utilization of Korea Multi-purpose Accelerator Complex (KOMAC)
14.10 - 14.25	Invited Speaker: 5 Asst. Prof. Dr. Rajib Schubert, REPUBLIC OF KOREA Topic: The Past, Present, and Future: How Personalized therapies will change everything
14.25 - 14.40	Invited Speaker: 6 Assoc. Prof. Dr. Kiattikhun Manokruang, THAILAND Topic: Injectable hydrogels derived from sol-gel intelligent modified biopolymers for drug delivery applications
14.40 - 14.50	-----Refreshments-----
Session Chair	Prof. Dr. Wonho Choe Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
14.50 - 15.05	Invited Speaker: 7 Asst. Prof. Dr. Wei-Yu Chen, TAIWAN Topic: Cold Plasma Processes for the Preparation of Functional Surfaces
15.05 - 15.20	Invited Speaker: 8 Dr. Arlee Tummon, THAILAND Topic: Sustainable Revolution: Solar-Driven Plasma Technology as a Catalyst for Transformative Agriculture and Global Food Security
15.20 - 15.35	Invited Speaker: 9 Assoc. Prof. Dr. Chawasak Rakpenthai, THAILAND Topic: Design and Construction of a Low-Cost Cold Plasma Source at Atmospheric Pressure for Various Applications
15.35 - 15.50	Invited Speaker: 10 Assoc. Prof. Ts. Dr. Siti Khadijah Za'aba, MALAYSIA Topic: Induction of Apoptosis of Melanoma Skin Cancer Cells by Atmospheric Plasma Jet (APJ)

February 1, 2024

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15.50 - 16.05	Invited Speaker: 11 Assoc. Prof. Dr. Wassanai Wattanutchariya, THAILAND Topic: Enhancing Bacterial Inactivation in Chicken Meat by Integrating Plasma-Activated Water and Supplementary Techniques
16.05 - 16.20	Invited Speaker: 12 Dr. Seong Bong Kim, REPUBLIC OF KOREA Topic: Molecular Structure Transformation of Ergosterol by SDBD Plasma Treatments
16.20 - 16.35	Invited Speaker: 13 Asst. Prof. Dr. Pradoong Suanpood, THAILAND Topic: The Characteristics of Cold Plasma Activated Water (PAW) in Fertilizer Water: Chemistry, Physico-chemical Properties
16.35 - 16.45	Announcement of Day 2 Program
16.45 - 17.15	Agriculture and Bio Plasma Technology Center (ABPlas) Tour (<i>Optional</i>)
18.00	Reception Dinner @The View All Day
----- End of Day 1 -----	

February 2, 2024

Time	Detail
Venue:	NSP Exhibition Hall (B1)
8.00 - 9.00	Registration @NSP Exhibition Hall (B1)
Session Chair	<i>Prof. Choongsik Bae</i> Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
9.00 - 9.30	Plenary Speaker: 5 <i>Prof. Dr. Holger Kersten, GERMANY</i> Topic: Diagnostics for plasma technology related to applications in health care and agriculture
9.30 - 9.45	Invited Speaker: 14 <i>Prof. Dr. Wonho Choe, REPUBLIC OF KOREA</i> Topic: Requirements and considerations for atmospheric pressure plasma sources for plasma farming
9.45 - 10.00	Invited Speaker: 15 <i>Dr. Pongsawat Phemphet, THAILAND</i> Topic: Plasma Technology and Application in Agricultural Products with Design of Experiment Approaches
10.00 - 10.15	Invited Speaker: 16 <i>Asst. Prof. Dr. Sanghoo Park, REPUBLIC OF KOREA</i> Topic: Understanding nitric oxide production in surface air discharges for plasma farming
10.15 - 10.25	-----Refreshments-----
10.25 - 10.40	Invited Speaker: 17 <i>Dr. Young Koung Lee, REPUBLIC OF KOREA</i> Topic: Plasma Application on Biomass Increment in Plant
10.40 - 10.55	Invited Speaker: 18 <i>Dr. Kanta Sangwijit, THAILAND</i> Topic: Cold Plasma: an Innovation for Sustainable Agriculture
10.55 - 11.10	Invited Speaker: 19 <i>Assoc. Prof. Dr. Yingmanee Tragoolpua, THAILAND</i> Topic: Antioxidant, Anti-inflammatory Activity and Inhibitory Efficacy of Royal Jelly on Skin Pathogenic Bacteria

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Time	Detail
Session Chair	<i>Assoc. Prof. Dr. Pitiwat Wattanachai</i> Chair of Symposium 2024 Director of Science and Technology Park (STeP), Chiang Mai University
11.10 - 11.25	Invited Speaker: 20 <i>Assoc. Prof. Dr. Hyungsoo Kim, REPUBLIC OF KOREA</i> Topic: Development of variable medical negative pressure chamber based on comfortable airflow control technology for responding to respiratory infectious diseases
11.25 - 11.40	Invited Speaker: 21 <i>Assoc. Prof. Dr. Sarawut Kumphune, THAILAND</i> Topic: The novel role of recombinant human secretory leukocyte protease inhibitor (rhSLPI) as a bioactive surface coating agent for medical and dental applications
11.40 - 11.55	Invited Speaker: 22 <i>Asst. Prof. Dr. Jihyeon Yeom, REPUBLIC OF KOREA</i> Topic: Chiral Materials for Biological Applications
11.55 - 12.55	-----Luncheon-----
12.55 - 13.10	Invited Speaker: 23 <i>Prof. Dr. Choongsik Bae, REPUBLIC OF KOREA</i> Topic: Collaborative development process of anti-infection technologies between industry and academia
13.10 - 13.25	Invited Speaker: 24 <i>Asst. Prof. Dr. Jiraporn Kantapan, THAILAND</i> Topic: IronQ: A Vital Element for Cell Therapy and Skin Rejuvenation Products
13.25 - 13.40	Invited Speaker: 25 <i>Assoc. Prof. Dr. Jae-Byum Chang, REPUBLIC OF KOREA</i> Topic: How to see everything: Molecular imaging for precision medicine
13.40 - 14.00	Closing Remark by Chairman
14.00 - 14.20	-----Refreshments-----
14.20 - 17.00	Focus group session: Collaboration meeting for new projects (Invited only)
	----- End of Day 2 -----