

15th Fraunhofer Symposium in Sendai

Micro/Nanotechnology, MedTec and Life Sciences: Shaping the Future
- Miyagi-Germany Technology & Business Matching -

主催

- ・東北大学マイクロシステム融合研究開発センター (μSIC)
- ・ Fraunhofer Institute for Electro Nano Systems (ENAS)

共催：JETRO(日本貿易振興機構)、宮城県

日時：12月9日 (9:00~20:00) / 12月10日 (9:00~15:30)

会場：TKP ガーデンシティ仙台 カンファレンスC,D
(宮城県仙台市青葉区中央1-3-1 アエル 21階)

プログラム (マイクロシステムや医療、ヘルスケア関連がテーマ)

12月9日：アカデミアや企業からの講演

12月10日：ピッチプレゼンテーション、ビジネスマッチング

参加企業の例

- ・Jueke Systemtechnik 精密機械、エレクトロニクス、(ドイツ企業)
- ・velixx メディカル、ヘルスケア (ドイツ企業)
- ・AEMtec マイクロエレクトロニクス オプトエレクトロニクス (ドイツ企業)
- ・Smart Membran 材料 (マイクロポーラスシリコン、ナノポーラスアルミナ) (ドイツ企業)
- ・Blue Practice (株) (宮城県企業、東北大スタートアップ)
- ・ボールウェーブ (株) (宮城県企業、東北大スタートアップ)
- ・(株) 小森コーポレーション (宮城県企業)
- ・スピンセンシングファクトリー (株) (宮城県企業、東北大スタートアップ)
- ・(株) メムス・コア (宮城県企業、東北大スタートアップ)



TKP Garden City Sendai BLDG

Fraunhofer Symposium Sendai

15th Fraunhofer Symposium in Sendai / December 09, 2024 - December 10, 2024
Micro/Nanotechnology, MedTec and Life Sciences: Shaping the Future
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Following the tradition of the Fraunhofer Symposium jointly organized by Fraunhofer ENAS and Tohoku University, this year's event will focus on micro and nanotechnologies and applications in health and life sciences. We are also partnering with the Miyagi Prefecture and IVAM Microtechnology Network Germany to organize a successful event featuring two keynotes and high-level technical presentations as well as a business matchmaking event and lab tours. In addition to three Fraunhofer institutes, around ten IVAM member companies from Germany, sponsored by the Miyagi Prefecture, as well as numerous Japanese companies will participate.

December 9-10, 2024
Register here for the Fraunhofer Symposium!

TO THE REGISTRATION

Contact



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参加申込 (web 登録) [15th Fraunhofer Symposium Sendai - Fraunhofer ENAS](#)

Fraunhofer Symposium 2024: Day 1 (December 9th) schedule

09:00 – 09:10	Opening	Greetings / Opening remarks (Fraunhofer: Hideya Miki, Fraunhofer Representative Japan) (Tohoku University: Tsuyoshi Tohyama, Executive Vice President for Industry-University Collaboration) (IVAM: Martin Hovestadt, Member of the board)
09:10 – 10:50	Session 1 Medical Technology (1) 5x 20min	<ol style="list-style-type: none"> 1) Dr. Mario Baum, Fraunhofer ENAS: Smart Medical Microsystems for Healthcare Applications 2) Dr. Alexis Gkogkidis, CorTec: Active Implantable Technology to Shape the Future of Medical Innovations 3) Assist. Prof. Noriko Tsuruoka, Tohoku University Graduate School of Engineering: Minimally invasive needle type biological substance monitoring device 4) Prof. Yasuo Ando, Spin Sensing Factory: Development and perspective of highly sensitive spintronic sensors 5) Dr. Mario Stephan, EPnp Medical: Electronics for Harsh Environments in Medical Devices
10:50 – 11:10	Break + Exhibition 20min	
11:10 – 12:30	Session 2 Bio Sensors and Micro/Nano Technology 4 x 20min	<ol style="list-style-type: none"> 1) Dirk Kuhlmeier, Fraunhofer IZI: Revolutionizing Targeted Therapies: Innovative Diagnostics and Biomarker Detection for Precision Medicine 2) Dr. Michael Gasteyer, Jobst Technologies: Continuous Biosensors in Critical Care Applications: Lactate, Glucose, and Beyond 3) Dr. Takayuki Kawashima, Photonic Lattice: Photonic crystal technology and its application 4) Yoshiteru Keikoin, MEMSCORE: Business in MEMSCORE
12:10 – 13:30	Lunch Break + Exhibition 60min	
13:30 – 15:30	Session 3 Medical Technology (2) 6 x 20min	<ol style="list-style-type: none"> 1) Andreas Freitag, AEMtech: High-Precision Assembly of Optoelectronic Components for Medical Systems 2) Dr. Hiroyuki Kosukegawa, Bluepractice: Blue Practice - Medical Practice Solutions for Endovascular Intervention 3) Dr. Jens Ebnet, Ebnet Medical: Next-Generation Vascular Access 4) Marc Augstein, velixX: The Development of Microfluidic Cartridges - Opportunities of Microfluidic Systems for the In-vitro-Diagnostics 5) Assist. Prof. Hiroki Hihara, Tohoku University Graduate School of Dentistry: Development of Medical Device for Dental in Academia 6) Dr. Nooshin Saedi, Fraunhofer ENAS: Capacitive micromachined ultrasonic transducers: Perspective for medical and industrial applications
15:30 – 15:50	Break + Exhibition 20min	
15:50 – 17:50	Session 4 Micro/Nano Technology 6 x 20min	<ol style="list-style-type: none"> 1) Dr. Manuela Junghähnel, Fraunhofer IZM-ASSID: Insights into 2.5 and 3D Hetero Integration for the Next Generation Advanced Packaging on 300 mm Wafer Level 2) Associate Prof. Takashiro Tsukamoto, Tohoku University Graduate School of Engineering: Frequency Modulation Coriolis Vibratory Gyroscope 3) Dr. Simon Böttger, TU Chemnitz: Nanomaterial-based gas/bio-sensors manufactured by CMOS compatible technology modules 4) Dr. Yusuke Tsukahara, Ballwave: Chemical sensing by using ball SAW sensor 5) Monika Lelonek, SmartMembranes: Macro and Nano Porous membranes á la Carte 6) Hideki Ikeda, Komori: Super fine printing process and machine for sustainable semiconductor manufacturing
18:00 – 20:00	Dinner reception 2h + Exhibition	

Fraunhofer Symposium 2024: Day 2 (December 10th) schedule

09:00 – 10:00	Keynote Session 2 x 30min	<ol style="list-style-type: none"> 1) Prof. Atsuhiko Nakagawa, Associate Executive VP University for International Co-Creation, Tohoku, Tohoku University Hospital, Department Biodesign: Redefining the role of the academic hospital: Diagnosis + Treatment + Place to solve the problem with industry, shifting from research, innovation, to enterprise 2) Prof. Stefan Schulz, Deputy Director Fraunhofer ENAS:
10:00 -11:00	Session 5 Medical Technology (3) 3 x 20min	<ol style="list-style-type: none"> 1) Martin Hovestadt, Jüke Systemtechnik: Integrated Microfluidic System for the Analysis of Multiparametric Cell-Cell Interaction 2) Dr. Izumi Tsubone, Fukuda Denshi Finetech: Defibrillation Catheter in Sendai and its Micro-manufacturing Technology 3) Lukas Westerhoff, temicon: Apertures and Membranes for the Medical Industry
11:00 – 13:30	Scheduled matchmaking / free meeting	Based on prior submitted profile and booking, as well as spontaneous meeting at exhibition space (in parallel to break, pitches and lunch)
11:00 – 11:20	Short Break	
11:20 – 12:20	Business matching pitches 20 x 3min	Companies/Institutes from Japan and Germany
12:20 – 13:30	Lunch	
13:30 – 15:30	Lab tour	Micro System Integration Center