

CONFERENCE PROGRAM

2024 The 9th International Conference on Materials
Technology and Applications (ICMTA 2024)

2024 The 13th International Conference on Nanostructures,
Nanomaterials and Nanoengineering (ICNN 2024)

November 6-8, 2024, Osaka, Japan



TKP Osaka Honmachi Conference Center
TKP 大阪本町カンファレンスセンター

Web: <https://www.kashikaigishitsu.net/facilitys/cc-osaka-hommachi/>

Address:

〒541-0056 大阪府大阪市中央区久太郎町 3-5-19 大阪 DIC ビル 3 階
〒541-0056 Osaka, Chuo Ward, Kyutaromachi, 3 Chome-5-19 Osaka DIC Building 3F



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WELCOME ADDRESS

Dear Attendees,

With great pleasure, we are welcoming you to 2024 The 9th International Conference on Materials Technology and Applications (ICMTA 2024) & 2024 The 13th International Conference on Nanostructures, Nanomaterials and Nanoengineering (ICNNN 2024), to be held from November 6 to 8, 2024 in Osaka, Japan

The unique idea behind ICMTA & ICNNN 2024 is to provide an opportunity for leading academicians, scientists, researchers and industry professionals from around the world to network and have scientific discussion on the latest advancements in the interlinked domains of science, business and engineering and it's research benefits for each other's domain progress. The conference will address multiple topics and issues of interest in the areas of engineering, science, business and management by practical exposure in the form of specialized sessions, poster presentations, plenary sessions and renowned speeches from the leading practitioners reinforcing the upcoming challenges to be faced and their potential solutions.

After several rounds of rigorous review, the program committee not only indicated acceptance but also provided ratings on those papers accepted for publication in the conference proceedings. We wish to express our sincere appreciation to all individuals who have contributed to ICMTA & ICNNN 2024 conference in various ways. Special thanks are extended to our colleagues in the program committee for their review of all the submissions, which is vital to the success of the conference, and also to the members in the organizing committee and other volunteers who had dedicated their time and efforts in planning, promoting and organizing the conference.

We have four speakers to give us report on their related research. They are:
Prof. Umemura Kazuo, Tokyo University of Science;
Prof. Mikio Ito, Fukui University of Technology;
Prof. Chih-Lang Lin, Central Taiwan University of Science and Technology;
Assoc. Prof. Go Yamamoto, Tohoku University.

And there are seven sessions in this conference. One best presentation will be selected from each session, which will be evaluated based on originality, applicability, technical merit, quality of PPT and communication skill. The best one will be announced at the end of each session.

We believe that these works will lay the foundation for further research and the interactions during the conference will lead to much improved version of the extended papers.

Have a nice communication on the conference!

ICMTA & ICNNN 2024 Organizing Committees
November, 2024



CONFERENCE COMMITTEES

Conference Chair

Kazuo Umemura, Tokyo University of Science

Program Chairs

Mikio Ito, Osaka University

Chih-Lang Lin, National Taiwan University

Publicity Chairs

Shyh Ming Kuo, I-Shou University

Jui-Fen Chang, National Central University

Technical Committees

Sirirat Wacharawichanant, Silpakorn University

Andri Kusbiantoro, Universiti Tun Hussein Onn Malaysia

Gobinda Gopal Khan, Tripura University (A Central University)

Kowit Piyamongkala, KMUTNB

Abdul Maleque, MIMechE (UK)

Zuliahani Ahmad, Universiti Teknologi Mara (UiTM) Perlis

Wan Izhan Nawawi, Universiti Teknologi MARA Perlis Branch

Manolo G. Mena, University of the Philippines

Mas Ayu Binti Hj Hassan, Universiti Malaysia Pahang

Trong-Phuoc Huynh, Cantho University

Leo Cristobal Ambolode II, Mindanao State University - Iligan Institute of Technology

Menandro Marquez, Mapua University

Sholihun, Universitas Gadjah Mada

Shun Yao, Sichuan University

Hendry Y. Nanlohy, Jayapura University of Science and Technology

Joonmyung Choi, Hanyang Universit

Wan Mazlina Md Saad, Universiti Teknologi MARA Selangor Branch

Mohd Hisbany bin Mohd Hashim, Universiti Teknologi MARA (UiTM)

Zulkifli Ahmad, University Malaysia Pahang

Bingpu Zhou, University of Macau

Sroisiri Thaweboon, Mahidol University

Siti Norazian Ismail, Universiti Teknologi MARA

Supachok Tanpichai, Chulalongkorn University

Youtian Zhang, Rice University

Sroisiri Thaweboon, Mahidol University

Yongkai Quan, Beihang University

Zhaoke Zheng, Shandong University

Osman ADIGUZEL, Firat University

Handika Dany Rahmayanti, Politeknik Negeri Media Kreatif



VENUE INFORMATION

❖ Conference Venue



TKP Osaka Honmachi Conference Center
TKP 大阪本町カンファレンスセンター

Web: <https://www.kashikaigishitsu.net/facilitys/cc-osaka-hommachi/>

Address:

〒541-0056 大阪府大阪市中央区久太郎町 3-5-19 大阪 DIC ビル 3 階
〒541-0056 Osaka, Chuo Ward, Kyutaromachi, 3 Chome-5-19 Osaka DIC Building 3F

❖ Time Zone

Tokyo Time: UTC +9

❖ Transportation

From Kansai International Airport

--By Taxi: 47 KM, takes 38-40 Mins.

--By Bus: take Nankai-Limited Express from Kansai-Airport Station to Namba Station, walk about 5 mins, take Midosuji Line to Hommachi Station, then walk around 3 mins.

❖ Weather

November

Average Low

14°C

Average High

20 °C



❖ Conference Room Map

Floor Map



Time	Conference 3F (ミーティング ルーム 3F)	Conference 3E (カンファレンスル ーム 3E)	Conference 3C (カンファレンスル ーム 3C)	Conference 3D (カンファレンス ルーム 3D)
Nov. 6	Onsite Sign in	---	---	---
Nov. 7	---	Conference Speeches Session 1 Poster Session Session 3	Session 2 Session 4	---
Nov. 8	---	Session 5	---	Session 6



GUIDELINE FOR ATTENDANCE

For Everyone

- ◆ The whole conference program is scheduled in Tokyo Time: UTC +9.
- ◆ Please double check your test time and presentation time, and adjust times to device's time zone.
- ◆ English will be the only language used for presentation.
- ◆ **November 6:** online test, onsite sign in; **November 7:** opening ceremony, conference speeches, onsite sessions; **November 8:** onsite and online sessions.
- ◆ Each conference speech is within 35 Mins.
- ◆ Each oral presentation is allocated with 15 Mins (13 Mins presentation, 2 Mins for Q&A), please prepare your English slides in advance.

For Onsite Presenters

❖ Oral Presentation

- ◆ Your punctual arrival and active involvement in each session will be highly appreciated.
- ◆ Get your presentation PPT slides, or PDF files prepared in advance and backed up.
- ◆ Laptop, projector & screen, laser sticks will be provided in the meeting room for presentation use.

❖ Poster Presentation

- ◆ Poster size: 0.6m width X 0.8m height
- ◆ **Poster to be printed and brought to conference site by presenter self.**
- ◆ At least 1 author to stand by the poster during the poster session, which is not only to present your work, but also to answer questions from the audience.

❖ More Tips

- ◆ Please take all your belongings when leaving meeting room.
- ◆ Conference organizers do not provide accommodation, please reserve your hotel room in advance.

For Online Presenters

❖ Tool

- ◆ **ZOOM (zoom.com.cn or zoom.us)** will be used for the whole online event. On the bottom of the web page, you can choose download the app for free and then choose 'JOIN A MEETING', then input room's ID. As usual you could not create an account now, so you can join in our conference as a visitor, ZOOM may ask you to input your phone number and the passwords they sent to your number to verify.

❖ How to Use Zoom

- ◆ Download the ZOOM on <https://www.zoom.us/download>.
- ◆ Turn on your Audio and start your Video. Use headsets/Earphones to enhance the audio effect and avoid the speaker echo or howling. Stay in a quiet place without noise.
- ◆ Join TEST DAY, we will help the delegates know better how to use ZOOM functions as following:
 1. RENAME: authors please rename like Session Number+ Paper ID+ Name as you join the room. E.g.: S1+ME001+Lily. For KN/IS/SC, please rename like KN/IS/SC+ Name
 2. SHARE SCREEN: Choose the files you need to share
 3. RAISE HAND FUNCTIONS: If you have any questions, you can use this function
 4. CHAT: type the word on the chat board, you can chat to everyone in the room or someone privately



❖ **Presentation Tips**

- ◆ Please prepare a digital device with Microphone (mandatory) and Webcam (optional), a computer or laptop is recommended; and make sure you are connected to a stable and high-quality Wi-Fi network, or 4G/5G or internet if available.
- ◆ Read the detailed program, check the time and Zoom information of the session that you will do your presentation.
- ◆ One best presentation will be chosen from each presentation session and announced at the end of the session. The conference secretary will email you the certificates after the conference.
- ◆ Please enter in your session’s room 10 Mins earlier of the start of session.
- ◆ When giving your presentation, please turn on the video.
- ◆ After your presentation, please leave the session room. At the end of the session, a group photo will be taken.

❖ **Zoom Information**

Zoom ID	87008000647	Zoom Link	https://us02web.zoom.us/j/87008000647
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CONFERENCE AGENDA

Day 1 | November 6, 2024, Wednesday

Time	Activity	Venue
10:00-12:00	Online Test	ZOOM ID: 87008000647
11:00-16:00	Onsite Sign in & Conference Kit Collection	Conference 3F (ミーティングルーム 3F)

Day 2 | November 7, 2024, Thursday

Time	Activity (Onsite Only)	Venue
Opening Ceremony		
09:00-09:10	Opening Remarks: Prof. Umemura Kazuo Tokyo University of Science	
Conference Speeches		
09:10-09:45	Speech 1: <i>Migration of Livings: from Diatom Gliding Phenomenon in Microchambers to Human Activities with STEP N Web3.0 Application Software</i> Prof. Umemura Kazuo Tokyo University of Science	Conference 3E (カンファレンスルーム 3E)
09:45-10:20	Speech 2: <i>Fabrication of Diamond Particle Dispersed Metal Matrix Composites by Spark Plasma Sintering (SPS) for High Thermal Conductive Materials</i> Prof. Mikio Ito Fukui University of Technology	
10:20-10:50	Group Photo & Morning Break	
10:50-11:25	Speech 3: <i>Study of the Factors on Controlling Cured Layer Thickness in DLP 3D Printing</i> Prof. Chih-Lang Lin Central Taiwan University of Science and Technology	



11:25-12:00	Speech 4: <i>Can Strength Prediction Methods Based on Continuum Mechanics Be Applied for Unidirectional Carbon Nanotube Yarn Reinforced Plastic Composites?</i> Assoc. Prof. Go Yamamoto Tohoku University	
12:00-13:00	Lunch	Conference 3E (カンファレンスルーム 3E)
13:00-15:00	Session 1: Materials Physics and Solid Mechanics	Conference 3E (カンファレンスルーム 3E)
	Session 2: Biomedical Materials and Nanomedicine	Conference 3C (カンファレンスルーム 3C)
15:00-15:50	Coffee Break and Poster Session	Conference 3E (カンファレンスルーム 3E)
15:50-17:50	Session 3: Preparation, Processing, and Properties of High Performance Alloys and Composite Materials	Conference 3E (カンファレンスルーム 3E)
	Session 4: Nanomaterials for Biomedical Imaging and Biosensor Technology	Conference 3C (カンファレンスルーム 3C)
17:50-20:00	Dinner	Conference 3B (ホール 3B)

Day 3 | November 8, 2024, Friday

Time	Activity (Onsite Only)	Venue
9:00-10:45	Session 5: Nanomaterials and the Applications in Optoelectronics and Sensing	Conference 3E (カンファレンスルーム 3E)
	Session 6: Concrete Technology and Environmental Engineering Materials	Conference 3D (カンファレンスルーム 3D)
10:45-11:00	Coffee Break	

Time	Activity (Online Only)	Online Room
10:00-12:15	Session 7: Preparation, Properties, and Application of Advanced Functional Materials	ZOOM ID: 87008000647



CONFERENCE SPEAKER

Time 09:10-09:45 | 2024.11.07 **Onsite Room** Conference 3E (カンファレンスルーム3E)



Prof. Umemura Kazuo

Tokyo University of Science

Speech Title: *Migration of Livings: from diatom Gliding Phenomenon in Microchambers to Human Activities with STEP N Web3.0 Application Software*

Bio

Dr. Kazuo Umemura is a full professor of Tokyo University of Science. His specialty is biophysics, especially, nanobioscience and nanobiotechnology. One of his recent interests is nanoscopic research of hybrids of biomolecules and carbon nanotubes (CNTs). Unique structures and physical/chemical properties of the hybrids are promising in biological applications such as nanobiosensors and drug delivery.

Dr. Umemura received his B.S. degree in Physics from Nagoya University. His M.S. and Ph.D. degrees were given from Tokyo Institute of Technology. After working at several institutes/universities as a researcher in Japan and in China, he became a professor of Tokyo University of Science. Kagurazaka campus of Tokyo University of Science is located at the center of Tokyo, so five subway/railway lines reach in front of the campus.

Abstract

Some types of microorganisms migrate on solid surfaces or in aqueous solutions. The movements might include essential meanings to survive. We have studied migration and floating phenomena of living diatom cells and their frustules using microchambers. Because diatoms are major photosynthetic planktons, they need sun lights. In fact, specific gravity of diatom cells is small, thus, diatom cells float in aqueous solutions for long time even without any external vibration. Using the modest specific gravity, diatom shells (frustules) which are nanoporous biosilica can be used as a floatable carrier of micron size biodevices. We have proposed the floatable biodevices functionalized with papain enzymes. Migration phenomena of living cells are also attractive research targets. Even for plankton cells, thoughtful gliding on a solid surface can be microscopically observed using microchambers. Recently, various Web3.0 mobile application softwares (app.) have been proposed. In particular, STEP N app. which provides running/jogging/walking opportunities while earning crypto currencies succeeded in establishing active and huge communities. The potential biophysical research topics with STEP N app. will be indicated in this talk.



CONFERENCE SPEAKER

Time 09:45-10:20 | 2024.11.07

Onsite Room Conference 3E (カンファレンスルーム3E)



Prof. Mikio Ito

Fukui University of Technology

Speech Title: *Fabrication of Diamond Particle Dispersed Metal Matrix Composites by Spark Plasma Sintering (SPS) for High Thermal Conductive Materials*

Bio

Prof. Mikio Ito received B.E., M.E, and Dr.E degrees from Osaka University. He was an assistant professor and associate professor at Osaka University, and is now a professor of Department of Mechanical Engineering, Fukui University of Technology. His research interests include development of novel powder metallurgy process, especially for sintering process, and improvement of various powder-metallurgy-processed functional materials, such as thermoelectric and hard magnetic materials, etc.

Abstract

Diamond particle dispersed metal matrix composites (MMCs) were fabricated by spark plasma sintering (SPS) in order to provide high performance thermal management materials. In the case of Al matrix composites, the samples were consolidated in continuous solid-liquid co-existent state by SPS process from the mixture of diamond powders, pure Al powders and Al-5mass%Si alloy powders. The microstructures and thermal conductivities of the composites obtained were examined. These composites were all well densified by heating at a temperature range between 798K and 876K for 1.56ks during SPS process. No reaction at the interface between the diamond particle and the Al matrix was observed by scanning electron microscopy for the composites fabricated under the sintering condition employed in this study. The relative packing density values of the diamond-Al composites obtained were 99% or higher in a volume fraction range of diamond between 45vol.% and 50cvol.%. Thermal conductivity of the diamond-Al composite containing 50vol.% diamond reached 552 W/mK, approximately 95% of the theoretical thermal conductivity estimated by using Maxwell-Euchen's equation.



CONFERENCE SPEAKER

Time 10:50-11:25 | 2024.11.07

Onsite Room Conference 3E (カンファレンスルーム3E)



Prof. Chih-Lang Lin

Central Taiwan University of Science and Technology

Speech Title: *Study of the Factors on Controlling Cured Layer Thickness in DLP 3D Printing*

Bio

Dr. Chih-Lang Lin got his master's degree in Power Mechanical Engineering from National Tsing-Hua University. He earned his Ph.D. in Mechanical Engineering from National Taiwan University. In the mean while, he earned another Ph.D. in Physics of Condensed Material and Radiation from Joseph Fourier University, France. His thesis involves two subjects which are fiber Bragg grating (FBG) sensors and laser driven microsensors. In the first part, a framework for the interpretation of reflected FBG spectra under a non-uniform strain field is proposed and experimental results for a crack tip strain field are presented. In the second part, the fabrication of laser driven polymer microsensors for viscosimetry, velocimetry and micropump applications are developed. Before he created the Bio-Photonics Lab at Central Taiwan University of Science and Technology, he joined Air Liquide international group to work in Japan as a researcher (TFT/LCD group) and in Taiwan as an operation manager/factory director. One of Dr. Lin's research interests is laser driven micromachines. He proposed a series of elemental micromachines, such as cantilever, lever beam, spring, Archimedes screw...etc. His another interest is the fabrication of three-dimensional structured protein using two-photon polymerization technology for detecting bio-cells such as bacteria, red blood cells, and cancer cells. Also, he studied the bio-mechanics of cells by using optical tweezers for the clinical diagnosis. The above subjects were expected to contribute to the application of point-of-care. More recently, he starts to implement the intelligent manufacture by the 3D printing technique.

Abstract

Digital Light Processing (DLP) 3D printing is an additive manufacturing technique that uses a digital light projector to cure photopolymer resin layer-by-layer to create high-precision solid structures. In addition to the planar resolution, the control of curing depth has a critical impact on the success of precise printing and the geometric features of the printed product. This issue is aggravated in the case of projection micro-stereolithography (PμSL), which uses an objective lens to enhance the planar resolution of the projected pattern. In this study, we investigated possible measures to control the cured layer thickness from both material and optical perspectives. As-received commercial resin was used to obtain the raw cured layer thickness, and then Sudan I or carbon black was added separately to study their effects. Eventually, the grayscale of the exposed pattern was adjusted to reduce light intensity and achieve a thinner layer thickness. Combining the above measures reduced the single-layer cured thickness from the raw 250 μm to 5.8 μm, approaching the usual minimum layer dimension setting of 5 μm. By exploring the variables affecting cured layer thickness, this study is expected to improve DLP 3D printing technology in producing high resolution structures.



CONFERENCE SPEAKER

Time 11:25-12:00 | 2024.11.07**Onsite Room** Conference 3E (カンファレンスルーム3E)

Assoc. Prof. Go Yamamoto

Tohoku University

Speech Title: *Can Strength Prediction Methods Based on Continuum Mechanics Be Applied for Unidirectional Carbon Nanotube Yarn Reinforced Plastic Composites?*

Bio

Dr. Go Yamamoto obtained his PhD degree from Tohoku University (Japan) in 2006. He is currently an Associate Professor in Department of Aerospace Engineering, Tohoku University, Japan. His group research interests include (1) Tensile strength prediction of carbon fiber reinforced plastic composites, (2) Determination of elastic constants of materials with intricate 3D geometries and mechanical anisotropy, and (3) Development of defect detection method by using topology optimization. Some of the work has been published in Composites Part A, Carbon, and Nanotechnology, among others.

Abstract

Carbon nanotubes (CNTs) having a high elastic modulus and tensile strength are anticipated for use as a reinforcing agent in fiber reinforced composites. Recently, the focus has shifted to investigating the fracture mechanisms of CNT yarns, which are twisted together to form long threads of CNTs, particularly in polymer matrix environments. In this study, the interaction between CNT yarns in polymer matrix environment under tensile loading was observed using the X-ray computed tomography (CT) method at the synchrotron radiation facility, SPring-8. Double-fiber fragmentation specimens were prepared by positioning two yarns parallel to the loading direction, implementing an inter-yarn spacing of within 20 μm . X-ray CT nanoimaging revealed that the CNT yarns fractured closely together in the direction of the long axis of the CNT yarns. This implies that stress concentration occurred in the adjacent CNT yarn due to the fracture of the CNT yarn, as observed for unidirectional carbon fiber reinforced plastic (CFRP) composites. Moreover, the fracture surfaces of the individual CNT yarns were observed to be separated by the relative slippage of CNT bundles. The matrix crack propagated longitudinally within the CNT yarns, taking a helical path through the matrix. Our findings revealed that stress concentration on the adjacent CNT yarn is expected to occur, providing valuable insight into the similarity of the failure mechanisms between unidirectional CNT yarn composites and unidirectional CFRPs.



Onsite Oral Session 1

Topic: Materials Physics and Solid Mechanics

**Session Chair: Mohd Hisbany Mohd Hashim, Universiti Teknologi
Mara Shah Alam**

Time 13:00-15:00 | 2024.11.07 **Onsite Room** Conference 3E (カンファレンスルーム3E)

Time	ID	Presenter	Affiliation
13:00-13:15	T2013	JIAN-YOU LIN	National Formosa University
13:15-13:30	T2019-A	Shuo Sun	Beihang University
13:30-13:45	T1073	Jay Prakash Bijarniya	Aalto University
13:45-14:00	T2083	Qindong Xie	University of Electronic Science and Technology of China
14:00-14:15	T2038	Chai Yan Ng	Universiti Tunku Abdul Rahman
14:15-14:30	T2066-A	Shenghao Chen	Xi'an Jiaotong University
14:30-14:45	T2001-A	Jia-Lin Tsai	National Yang Ming Chiao Tung University
14:45-15:00	T1037-A	Shehzahdi Shebbrin Moonshi	Griffith University

Details:

Paper ID	Title, Authors
T2013	Enhanced Dielectric Performance of Titanium Graphene Oxide Nanocellulose Composites for Advanced Capacitor Applications <i>HOU-REN LU, JIAN-YOU LIN, JUN-HAO LIAO, YA-HAN CHANG, CHAO-YU LEE</i>
T2019-A	Research on the Preparation Technology of Non-Contact Phosphorescent Spectroscopic Temperature Measurement Coatings on Solid Surfaces <i>Yongkai Quan, Shuo Sun, Hongye Mi, Jianyu Liu, Jieming Chai, Qiuyang Yin, Jichen Liu, Lina Zhang</i>
T1073	Effective Refractive Index Estimation of Composite Structures Using the Mie Theory and Layer Transmissivity Approach <i>Jay Prakash Bijarniya, M. Mohib Rehman, Ari Seppälä</i>
T2083	Revealing the Broadband Terahertz Faraday Rotation Mechanism in Rare-earth Doped Yttrium Iron Garnets



	<i>Qindong Xie, Zechuan Bin, Tianyu Zhang, Mi Hu, Qinhui Yang, Peiheng Zhou</i>
T2038	Effect of Cold Isostatic Pressing on the Thermal Stability of PMMA Interlayer-encapsulated MAPbI₃ Perovskite Films <i>Yew Hang Soo, Minchung Choong, Chai Yan Ng, Hieng Kiat Jun, Foo Wah Low</i>
T2066-A	Modulus Prediction of Solid Propellants Via Computational Micromechanics and Convolutional Neural Network <i>Shenghao Chen, Zekai Huang, Qun Li</i>
T2001-A	Characterizing Nonlinear Constitutive Behaviors of Fiber Metal Laminates (FMLs) <i>Zhe-Zhi Jiang, Jia-Lin Tsai</i>
T1037-A	Tracking of Mesenchymal Stem Cells using Multimodal Imaging in Glioma Model <i>Shehzahdi Shebbrin Moonshi, Hang Thu Ta</i>



Onsite Oral Session 2

Topic: Biomedical Materials and Nanomedicine

Session Chair: Chih-Lang Lin, Central Taiwan University of Science and Technology

Time 13:00-15:00 | 2024.11.07 **Onsite Room** Conference 3C (カンファレンスルーム3C)

Time	ID	Presenter	Affiliation
13:00-13:15	T2042-A	Liuxin Yang	Southeast University
13:15-13:30	T2068	Nurbaiti	Mechanical and Industrial Engineering Department, Universitas Gadjah Mada
13:30-13:45	T2044-A	Yinghua Tao	Southeast University
13:45-14:00	T2072-A	Zuyao Wang	Southeast University
14:00-14:15	T1035-A	João Miguel Lopes Costa	CICECO - Aveiro Institute of Materials, University of Aveiro
14:15-14:30	T2065-A	Zhiqi Zhang	Southeast University
14:30-14:45	T1033	Sukanya Thepwatee	King Mongkut's University of Technology North Bangkok
14:45-15:00	T2078-A	Tong Zhou	Southeast University

Details:

Paper ID	Title, Authors
T2042-A	Spatiotemporal Delivery of Microenvironment Responsive Hydrogel Incorporated with Stem Cells-Loaded Porous Microspheres for Abdominal Wall Repair <i>Liuxin Yang, Tianzhu Zhang</i>
T2068	Morphology and Deviation dimension of Hydroxyapatite/Collagen Composite After Printing with Three-Dimensional Bioprinting <i>Nurbaiti, Muhammad Kusumawan Herliansyah, Alva Edy Tontowi, Maria Goreti Widiastuti, Hendri Van Hoten</i>
T2044-A	Amino acid-crosslinked 4arm-PLGA Janus Patch with Anti-Adhesive and Anti-bacterial Properties for Hernia Repair <i>Yinghua Tao</i>
T2072-A	Apoptotic Bodies Encapsulating Ti2N Nanosheets for Synergistic Chemo-Photothermal Therapy



	<i>Zuyao Wang, Zhuyuan Wang</i>
T1035-A	Preparation of Enduring Colloidal Suspensions Containing Non-superparamagnetic Nanoparticles for Bio Magneto-Rheology Applications <i>J. M. Costa, G. F. Resende, Y. Gu, J. N. M. Silveiras, M. R. Lagarto, F. L. Sousa, V. M. Gaspar, J. F. Mano, A. Millán, J.-L. Garcia-Palacios, A. Namai, M. Yoshikiyo, S. Ohkoshi, N. J. O. Silva</i>
T2065-A	SNX2112 Encapsulated in Nano-micelles to Suppress the HSP90-HIF1α Pathway for Enhanced Solid Tumors Photothermal Therapy <i>Zhiqi Zhang, Jinbing Xie, Shenghong Ju</i>
T1033	Strategic Development of Nanoemulsion Bases for Versatile Active Ingredient Incorporation <i>Sukanya Thepwatee, Anchalee Pinket, Sutthipong Rangauthok</i>
T2078-A	Chemically Powered Nanomotors with Magnetically Responsive Function for Targeted Delivery of Exosomes <i>Tong Zhou, Shenfei Zong, Zhuyuan Wang</i>



Onsite Oral Session 3

Topic: Preparation, Processing, and Properties of High Performance Alloys and Composite Materials

Session Chair: Xiping Guo, Northwestern Polytechnical University

Time 15:50-17:35 | 2024.11.07 **Onsite Room** Conference 3E (カンファレンスルーム3E)

Time	ID	Presenter	Affiliation
15:50-16:05	T2016-A	Xiping Guo	Northwestern Polytechnical University
16:05-16:20	T2022	Najwa Mohammad Fadzil	Universiti Teknologi MARA (UiTM)
16:20-16:35	T2086	Haixiang Chen	Tongji University
16:35-16:50	T2046	Jianguo Wang	Northwestern Polytechnical University
16:50-17:05	T2024	Yassin Fouad	King Fahd University of Petroleum and Minerals
17:05-17:20	T2026	Muhammad Daniel Abdul Shahid	Universiti Teknologi MARA (UiTM)
17:20-17:35	T2057	Jungang Nan	Northwestern Polytechnical University

Details:

Paper ID	Title, Authors
T2016-A	Effects of Al Content on Microstructure and Properties of NbTiZrCrAl Refractory High Entropy Alloys <i>Xiping Guo, Fanglin Ge, Ping Guan</i>
T2022	A Hybrid FEM-CNN for Image-Based Severity Prediction of Corroded Offshore Pipelines <i>Najwa Mohammad Fadzil, Mohd Fakri Muda, Muhammad Daniel Abdul Shahid, Norhelienna Aziz, Mohd Hairil Mohd, Norliyati Mohd Amin, Adiza Jamadin, Mohd Hisbany Mohd Hashim</i>
T2086	NiCo Electroforming Research on Ru/C multilayer Film for Mirror Production <i>Haixiang Chen, Kun Wang</i>
T2046	Deformation Characteristic and Microstructure of Nickel Based Alloy Combined Under Compression and Torsion <i>Jianguo Wang, Jungang Nan, Yonghao Zhang, Dong Liu, Yingjing Yuan, Yanhui Yang</i>
T2024	Wear Mechanisms of a Kevlar-Zirconia-Epoxy Composite Casing Lining



	<i>Yassin Fouad, Nekar Merah, Amjad Al-Shaarawi</i>
T2026	<p>Optimizing Fiber Orientation GFRP Composite Wraps for Enhanced Burst Pressure Performance of Corroded API 5L X42 Pipelines</p> <p><i>Muhammad Daniel Abdul Shahid, Mohd Hisbany Mohd Hashim, Mohd Khairul Kamarudin, Sakhiah Abdul Kudus, Najwa Mohammad Fadzil, Mohd Fakri Muda</i></p>
T2057	<p>Evaluation of the ACDR Forming Uniformity for Large-Size Titanium Alloy Heads Based on FEM and RSM Methods</p> <p><i>Jungang Nan, Dong Liu, Jianguo Wang, Jiahang Zhao, Yonghao Zhang, Haodong Rao, Yanhui Yang, Jun Wu</i></p>
T2080	<p>Phase Precipitation Prediction in the X65 Steel Grade and Modified UNS N06625 Alloy</p> <p><i>Reylina Garcia Tayactac, Mark Christian Manuel, Jaime Honra, Tiago Kaspary</i></p>



Onsite Oral Session 4

Topic: Nanomaterials for Biomedical Imaging and Biosensor Technology

Session Chair: Umemura Kazuo, Tokyo University of Science

Time 15:50-17:50 | 2024.11.07 **Onsite Room** Conference 3C (カンファレンスルーム3C)

Time	ID	Presenter	Affiliation
15:50-16:05	T2070-A	Fangzheng Tian, Siyu Li	Southeast University
16:05-16:20	T1038-A	Hajime Motomura	Ibaraki University
16:20-16:35	T2074-A	Tingyu Wang	Southeast University
16:35-16:50	T1050	Nur Hamizah Mohd Zainudin	Universiti Sultan Zainal Abidin
16:50-17:05	T2043-A	Weikun Li	Southeast University
17:05-17:20	T1008-A	José N. M. Silveiras	University of Aveiro
17:20-17:35	T2073-A	Mengsu Hu	Southeast University
17:35-17:50	T2075-A	Youjiang Zhao	Southeast University

Details:

Paper ID	Title, Authors
T2070-A	Molecular Etching-Derived High-Brightness NIR-II Gold Nanoclusters for High-Resolution Bioimaging and Photothermal Therapy <i>Fangzheng Tian, Siyu Li, Shenghong Ju</i>
T1038-A	Synthesis of Silica-Coated Gold Nanoparticles in Water Phase Toward a Biodegradable X-ray Contrast Agent <i>Hajime Motomura, Noriko Yamauchi, Mone Kimura, Ikarashi Kaito, Kohsuke Gonda, Yoshio Kobayashi</i>
T2074-A	Direct Isolation and Profiling of Single-Exosome from Blood Using PMMA Nanocavities SERS Array <i>Tingyu Wang, Kai Zhu, Shenfei Zong, Zhuyuan Wang</i>
T1050	Evaluation of Bismuth Oxide Nanoparticles (BiONPs) As a Potential Contrast Agent Computed Tomography (CT) Imaging



	<i>Muhammad Hafiqrul Zuhair Husri, Suffian Mohamad Tajudin, Juliana Mohd Radzi, Nurul Syazwina Mohamed, Wan Nordiana Wan Abdul Rahman, Khairunisak Abdul Razak, Nur Hamizah Mohd Zainudin</i>
T2043-A	All-in-One Self-Powered Microneedle Device for Accelerating Infected Diabetic Wound Repair <i>Weikun Li, Liqin Ge</i>
T1008-A	Microneedle Platforms for Enhanced Cell Delivery: Bottom-Up Synthesis and Optimization <i>José N. M. Silveiras, Marta M. Maciel, Eduardo T. Coimbra, Carlos Mendonça, Nuno J. O. Silva, Tiago R. Correia, Filipa L. Sousa, João F. Mano</i>
T2073-A	Wearable and Flexible Surface-enhanced Raman Scattering Biosensor for Sweat Collection and Analysis <i>Mengsu Hu, Zhuyuan Wang</i>
T2075-A	A SERS Microfluidic Contact Lens Sensor for Tear Malondialdehyde and Glucose Detection <i>Youjiang Zhao, Zhuyuan Wang</i>



Onsite Oral Session 5

Topic: Nanomaterials and the Applications in Optoelectronics and Sensing

Session Chair: Xiao-Guang Yang, Institute of Semiconductors, CAS

Time 09:00-10:45 | 2024.11.08 **Onsite Room** Conference 3E (カンファレンスルーム3E)

Time	ID	Presenter	Affiliation
09:00-09:15	T2025-A	Xiao-Guang Yang	Institute of Semiconductors, CAS
09:15-09:30	T1040-A	Yuki Noda	Osaka University
09:30-09:45	T2093-A	Nurul Akmalia	Politeknik Negeri Media Kreatif
09:45-10:00	T1009	Shun Yao	Sichuan University
10:00-10:15	T1041	Gladys G. Edilo	Caraga State University
10:15-10:30	T2018	Siriporn Wu	Faculty of Science Chulalongkorn University
10:30-10:45	T1048-A	Van-Phung Mai	National Yunlin University of Science and Technology

Details:

Paper ID	Title, Authors
T2025-A	High Output Power InAs/GaAs Quantum Dot DFB Lasers for Silicon-Based Photonics Integrated Circuits <i>Xiao-Guang Yang</i>
T1040-A	Construction of Gold Nano-structures and Their Applications in Flexible Electronics <i>Yuki Noda, Naomi Toyoshima, Tsuyoshi Sekitani</i>
T2093-A	Properties, Synthesis, and Applications Carbon Nanodots Sulfur from Microwave Methods <i>Handika Dany Rahmayanti, Mahardika Prasetya Aji, Sulhadi, Septia Ardiani, Nurul Akmalia, Freddy Yakob</i>
T1009	Tropine-based Deep Eutectic Solvents (DES) Applied in Thealcoholysis of Polyethylene Terephthalate (PET) for Preparation of Nano Carbon Dots <i>Gaojin Zhou, Chen Chen, Shun Yao</i>
T1041	Stable and Tunable Photoluminescence Emission of Functionalized Carbon Dots for Heavy Metal Ion Detection



	<i>Gladys G. Edilo, Rolando T. Candidato, Jr.</i>
T2018	Effect of Infill Density on Electrical Sensitivity of 3D-printed Flexible Pressure Sensors Using Ultrasonication Cavitation-Enabled Treatment and Thermal-Assisted Method <i>Siriporn Wu, Chuanchom Aumnate, Pranut Potiyaraj, Patrapee Kungsadalpipob</i>
T1048-A	Nanofiber Effect on Ion Transport Through Metal-Organic-Framework Membrane <i>Van-Phung Mai</i>



Onsite Oral Session 6

Topic: Concrete Technology and Environmental Engineering Materials

Session Chair: Rungtiva Poo-arporn, King Mongkut's University of Technology Thonburi

Time 09:00-10:45 | 2024.11.08 **Onsite Room** Conference 3D (カンファレンスルーム3D)

Time	ID	Presenter	Affiliation
09:00-09:15	T2053	Mohamed Aown	The University of New South Wales
09:15-09:30	T2029	Mohd Fakri Muda	Universiti Teknologi MARA Pahang Branch
09:30-09:45	T2023-A	Abdulahi Mohamed	Brunel University London
09:45-10:00	T1007-A	Chosel Lawagon	University of Mindanao
10:00-10:15	T2076-A	Qianqian Dong	Southeast University
10:15-10:30	T1028-A	Linjer Chen	National Kaohsiung University of Science and Technology
10:30-10:45	T2092-A	Septia Ardiani	Politeknik Negeri Media Kreatif

Details:

Paper ID	Title, Authors
T2053	Dynamic Behaviour of Geopolymer Concrete with Varied Compositions and Equivalent Compressive Strengths <i>Mohamed Aown, Safat Al-Deen</i>
T2029	Flexural Characteristics of Eco-Friendly Self-Compacting Concrete with Rice Husk Ash <i>Mohd Hisbany Mohd Hashim, Mohd Fakri Muda, Mohd Hairil Mohd, Najwa Mohammad Fadzil, Muhammad Daniel Abdul Shahid, Hazrina Ahmad and Niken Pujirahayu</i>
T2023-A	From Recovered Sludge to Repairing Concrete: A Novel carrier for Self-healing Concrete <i>Abdulahi Mohamed, Mizi Fan</i>
T1007-A	Synergistic Effect of Fly-ash and Durian Nanocellulose (<i>Durio zibethinus</i> L.) Encapsulated silica on Concrete's Mechanical Properties <i>Adrian Reister Fernandez, Josiah Job Ferrer, Denver Sarceno, James Mark Gallawan, Chosel Lawagon</i>



T2076-A	A Multifunctional MXene-hydrogel for Controlled Water Contamination Management <i>Qianqian Dong, Kuo Yang, Zhuyuan Wang</i>
T1028-A	Synthesis and Characterization of MoS₂/ V₂O₅ Nanohybrids for Excellent Photocatalytic Ciprofloxacin Removal <i>Linjer Chen</i>
T2092-A	A Simple Water Treatment Method Using Activated Carbon, Manganese Zeolite and Silica Sand for Application in Densely Populated Areas <i>Septia Ardiani, Handika Dany Rahmayanti, Nurul Akmalia, Lukman Nulhakim, Freddy Yakob and Iskandar Zulkarnain</i>



Online Oral Session 7

Topic: Preparation, Properties, and Application of Advanced Functional Materials

Session Chair: Osman Adiguzel, Firat University

Time 10:00-12:15 | 2024.11.08
Online Room ID 87008000647 **Online Link** <https://us02web.zoom.us/j/87008000647>

Time	ID	Presenter	Affiliation
10:00-10:15	T1013-A	Shigeru Kubota	Yamagata University
10:15-10:30	T1059	Florence Joie F. Lacsá	Polytechnic University of the Philippines
10:30-10:45	T1022	Hiromi Kobori	Konan Univeristy
10:45-11:00	T2039-A	Osman Adiguzel Türkiye	Firat University
11:00-11:15	T2005	Sroisiri THaweboon	Mahidol University
11:15-11:30	T1001-A	Roumel Salvador Alvarez	University of Mindanao
11:30-11:45	T2011	Thanh-Phieu Le	Can Tho University
11:45-12:00	T2077	Xiaotao Yu	Huazhong University of Science and Technology
12:00-12:15	T2080	Reylina Garcia Tayactac	Mapúa University

Details:

Paper ID	Title, Authors
T1013-A	Nanostructured Surfaces for Trapping Light in Thin-film Photovoltaic Devices <i>Shigeru Kubota</i>
T1059	Synthesis of Iron-doped Carbon Nanodots from Waste Expanded Polystyrene and its Application in Carbon Monoxide Gas Detection <i>Nicolle Faith B. Vidal, Erica A. Tolentino, Florence Joie F. Lacsá, Rugi Vicente C. Rubi</i>
T1022	Magnetic Field induced Metal-Insulator-Transition in La_{1-x}Sr_xMnO₃ Thin Films on a-SiO₂ Substrates produced by Metal Organic Decomposition Method <i>Hiromi Kobori, Sara Kawaguchi, Kohei Hamada, Toshifumi Taniguchi, Tetsuo Shimizu</i>
T2039-A	Shape Memory Phenomena and Crystallographic Basis of Reversibility in Shape Memory Alloys



	<i>Osman Adiguzel</i>
T2005	The Mechanical Properties of Vanillin-Incorporated Surgical Obturator Resin <i>Sroisiri Thaweboon, Proudilita Chiracharoenporn, Pakhwan Iamteerapaiboon, Pitchaya Quanprasert, Apissara Tripaththaranan and Pornkiat Chunjitapirom</i>
T1001-A	Geopolymeric Amplification of Fly-ash-based Mortar with Silica-cellulose from Pineapple Waste Peels <i>Roumel Salvador Alvarez, R. Cabardo, K. Salcedo, A.J. Piloto, N.C. Secretaria</i>
T2011	High-volume Fly Ash Concrete for Road Pavement: Integrated Laboratory and Field Study <i>Thanh-Phieu Le, Dinh-Thang Nguyen, Tri-Khang Lam, Phuong-Duy Hoai Ninh, Trong-Phuoc Huynh</i>
T2077	Study on The Mechanical Properties and Monitoring of Castable Polyurethane Elastomeric Bearings <i>Xiaotao Yu, Yong Yuan</i>
T2080	Phase Precipitation Prediction in the X65 Steel Grade and Modified UNS N06625 Alloy <i>Reylina Garcia Tayactac, Mark Christian Manuel, Jaime Honra, Tiago Kaspary</i>



Poster Session

Topic: Innovative Materials and Technologies: Performance Analysis and Application Frontiers

Session Chair: Jui-Fen Chang, National Central University

Time 15:00-15:50 | 2024.11.07 **Onsite Room** Conference 3E (カンファレンスルーム3E)

Order	ID	Presenter	Affiliation
1	T2014-A	Jui-Fen Chang	National Central University
2	T1053-A	Fei Chen	Southeast University
3	T2015-A	Jui-Fen Chang	National Central University
4	T2059-A	Zhiyong Shi	Southeast University
5	T2047-A	Rungtiva P. Poo-arporn	King Mongkut's University of Technology Thonburi
6	T2062-A	Xiujie Jiang	Southeast University
7	T2084-A	Sunjung Kim	University of Ulsan
8	T1012-A	Yi-zhen Wan	Southeast University
9	T1070-A	Reika Matsumoto	National Institute of Technology, Niihama College
10	T1025-A	Liming Liu	Southeast University
11	T1019-A	Shunji Kurosu	Toyo University
12	T2004-A	Chil-Hyoung Lee	Energy & Nano Technology Group, Korea Institute of Industrial Technology (KITECH)
13	T2032-A	Ji Yang Kim	Korea Electrotechnology Research Institute (KERI), Pusan National University
14	T2087-A	Eun Bi Song	Hankyong National University
15	T2030-A	Min-Jung KANG	Korea Electrotechnology Research Institute
16	T1020-A	Hisao Morimoto	Toyo University
17	T2037	Rachan Lueangkrathok	Chulalongkorn University
18	T2088-A	Ga Yeon Moon	Hankyong National University



19	T2045-A	Mohammed Yousif	King Fahd University of Petroleum & Minerals
20	T1057-A	Yoo Joo Han	Changwon National University
21	T1055-A	Naye Jang	Changwon National University
22	T2055-A	Yung-Hsiang Hung	National Chin-yi University Technology
23	T2081-A	Zeqi Chen	Southeast University
24	T2091-A	Handika Dany Rahmayanti	Politeknik Negeri Media Kreatif
25	T2095-A	Yichang Xie	Southeast University

Details:

Paper ID	Title, Authors
T2014-A	Highly Efficient Quantum-Dot Vertical Light-Emitting Transistors <i>Jui-Fen Chang, Jia-Min Yu</i>
T1053-A	Preparation and Performance Evaluation of Warm-Mixed Epoxy Asphalt Ultrathin Overlay by Post-Doping Method <i>Fei Chen, Zhaohui Min, Jiliang Feng</i>
T2015-A	Extraction of Optical Constants of Organic Semiconductors Based on Ultrastrong Exciton-Photon Coupling in Microcavities <i>Jui-Fen Chang, Zheng-Feng Zhuang, Sung-Jung Lin</i>
T2059-A	Investigation of the Blending Behavior, Mechanism and Performance Evaluation Between Epoxy Asphalt and Aged Asphalt <i>Zhiyong Shi, Zhaohui Min, Wei Huang</i>
T2047-A	Development of An Electrochemical Sensor Based on Molecularly Imprinted Polymer to Detect Breast Cancer Biomarker <i>Rungtiva Poo-arporn, Chutimon Akkapinyo</i>
T2062-A	Investigation of Performance Evolution Mechanisms of Epoxy Asphalt Binder and Mixtures <i>Xiujie Jiang</i>
T2084-A	Function of Complexing Agent on Electrodeposition of Copper Thin Films for Microelectronic Interconnects <i>Yunhwa Jung, Hyeonsan Jo, Hyunjae Heo, Sunjung Kim</i>
T1012-A	Ordered Porous Layer Interferometry with Robust Optical Signal Readout: Evaluation Between Photonic Band Gap and Fabry-Pérot Fringes



	<i>Yi-zhen Wan, Weiping Qian</i>
T1070-A	Heat Generation Ability in AC magnetic Field of La_{1-x}Sr_xMnO₃ Powder Prepared by Sol-Gel Method <i>Reika Matsumoto, Hideyuki Hirazawa, Hiromichi Aono</i>
T1025-A	Development of Methodology Based on Optical Interferometry for Measuring Fibrinolytic Activity <i>Liming Liu, Weiping Qian</i>
T1019-A	Synthesis of Carbon Nano-structures Composed of Fullerene Molecules and (6,6) carbon Nanobelts Via self-assembly <i>Shunji Kurosu, Hisao Morimoto, Toru Maekawa</i>
T2004-A	Purification of Alq₃ Using Ionic Liquid: Effects on Purity and Mobility for Improved OLED Performance <i>Chil-Hyoung Lee, Eun Mi Kim, Taewon Ha, Dae Yun Lim</i>
T2032-A	Epoxy-Boron Nitride Composite Materials with High Thermal Conductivity and Robust Insulation Properties for Insulated Metal Substrates <i>Ji Yang Kim, Hyeon-Gyun Im, DongJun Kang, Junho Jang, Jaejun Lee</i>
T2087-A	Hydrogenation of Waste Plastic Pyrolysis Wax Via Glycerol Aqueous Phase Reforming <i>Eun Bi Song, Ga Hee Kim, Byung Hwan Um</i>
T2030-A	High Performace Organic-inorganic Insulation Coating Using Silica-acryl Hybrid Materials for Packaging Applications <i>MIN JUNG KANG</i>
T1020-A	Synthesis of Flower-shaped Magnetic particles with Ferrocene-ethanol Solution and Their Characterization <i>Kenta Hiratsuka, Shunji Kurosu, Toru Maekawa, Hisao Morimoto</i>
T2037	Film Property Enhancement of Bacterial Nanocellulose Suspension Using High-Pressure Homogenization Parameters <i>Rachan Lueangkrathok, Duangdao Aht-Ong, Kamonwan Pacaphol</i>
T2088-A	Synthesis of Oak Lignin Oil Via Depolymerization Using Aqueous Phase Reforming (APR) of Glycerol <i>Ga Yeon Moon, Ga Hee Kim, Byung Hwan Um</i>
T2045-A	Effect of Heat Treatment on the Wear Performance of Deposited PVD TiAlN Coating on 316L Stainless Steel <i>Mohammed Yousif, Nasirudeen Ogunlakin</i>



T1057-A	Evaporation Behavior and Particle Aggregation in Colloidal Droplets Onporous Microstructured Surfaces <i>Yoo Joo Han, Woo Young Kim, Seong Min Yoon, Seok Kim, Young Tae Cho</i>
T1055-A	Strong 3D Microattices Via Photopolymerization-Induced Phase Separationand Conformal Polymer Coating <i>Naye Jang, Seo Rim Park, Seok Kim, Young Tae Cho</i>
T2055-A	A Study on Process Quality Improvement and Carbon Reduction in the Production of Industrial Motor Shafts <i>Yung-Hsiang Hung, Yi-Pao Lu</i>
T2081-A	Shaking Table Test on Seismic Dynamic Response of Subgrade-Track-Train System under Different Seismic Directions <i>Zeqi Chen, Ying Gao</i>
T2091-A	A Physical Foundation Underlying the Mechanical Properties of Slender Animals: How a Cobra Snake Can Raise its Neck? <i>Handika Dany Rahmayanti, Desyana Olenka Margareta, Nadya Amalia, Fisca Dian Utami, Elfi Yuliza, Rahmawati Munir, Nova Lailatul Rizkiyah, Nurul Akmalia and Mikrajuddin Abdullah</i>
T2095-A	Research on Preventive Maintenance of Epoxy Asphalt Ultra-Thin Anti-Skid Layer <i>Yichang Xie</i>



ATTRACTIONS IN OSAKA

Dōtonbori



Dōtonbori is a district in Osaka, Japan. Known as one of Osaka's principal tourist and nightlife areas, the area runs along the Dōtonbori canal from Dōtonboribashi Bridge to Nipponbashi Bridge in the Namba district of the city's Chūō ward. Historically a theater district, it is now a popular nightlife and entertainment area characterized by its eccentric atmosphere and large illuminated signboards.

One of the area's most prominent features is an illuminated billboard for confectionery company Glico displaying the image of a runner crossing a finishing line, which is often seen as an icon of Osaka within Japan.

Universal Studios Japan



Universal Studios Japan is a theme park located in Osaka, Japan. Opened on March 31, 2001, it is one of six Universal Studios theme parks worldwide and was the first to open outside the United States. The park is owned and operated by USJ LLC, a wholly owned subsidiary of NBC Universal. The park is similar in layout to Universal Studios Florida and contains selected attractions from both Universal Orlando and Universal Studios Hollywood, in addition to a small number of unique attractions.

Over 11 million guests visited the park in its opening year, making it the fastest theme park to reach the 10 million guest milestone at the time. In 2023, USJ hosted 16 million visitors, making it the third-most visited theme park in the world behind Magic Kingdom and Disneyland, and the most visited theme park in Asia.



Osaka Castle



Osaka Castle is a Japanese castle in Chūō-ku, Osaka, Japan. The castle is one of Japan's most famous landmarks and played a major role in the unification of Japan during the sixteenth century of the Azuchi-Momoyama period.

The main keep of Osaka Castle is situated on a plot of land roughly one square kilometre. It is built on two raised platforms of landfill supported by sheer walls of cut rock, using a technique called burdock piling, each overlooking a moat. The keep is five stories on the outside and eight stories on the inside and built atop a tall stone foundation to protect its occupants from attackers.

The main keep is surrounded by a series of moats and defensive fortifications. The castle has two moats (an inner and an outer one). The inner castle moat lies within the castle grounds and consists of two types: wet (northern-easterly) and dry (south-westerly). The outer moat meanwhile surrounds the entire castle premise, denotes the castle's outer limits, and consists of four individual water-filled sections, each representing a cardinal direction (North, East, South, West).

Shinsaibashi



Shinsaibashi is a district in the Chūō-ku ward of Osaka, Japan and the city's main shopping area. At its center is Shinsaibashi-suji, a covered shopping street, that is north of Dōtonbori and Sōemonchō, and parallel and east of Mido-suji street. Associated with Shinsaibashi, and west of Mido-suji street, is Amerika-mura, an American-themed shopping area and center of Osaka's youth culture. Major stores and boutiques concentrates are found around the area. Shinsaibashi is easily accessed via the subway.

Like many place names in Osaka, the Shinsaibashi shopping district gets its name from one of the many "Machi-bashi" (town bridges) that were built and managed by the local merchants. Shinsaibashi was a much-loved landmark bridge that spanned the Nagahori-gawa canal.



CALL FOR PAPERS

www.iccbm.org

ICCBM 2025

The 9th International Conference on Civil and Building Materials (ICCBM 2025) is to be held in Bali, Indonesia, during January 17-19, 2025, as the workshop of 15th International Conference on Advanced Materials Research (ICAMR 2025).

The conference is co-organized by Science and Engineering Institute, USA, Swinburne University of Technology, Australia, Alfaisal University, Saudi Arabia, Ghent University Global Campus, South Korea, The University of Tokyo, Japan etc. ICCBM 2025 aims to bring together researchers and practitioners from academia and industry to discuss latest progress and development in these fields. It would be the international platform for knowledge sharing as well as creating favorable atmosphere for collaboration initiations. This event will include contributions by renowned plenary and invited speakers, oral presentations, posters sessions and technical exhibition that relate to the topics dealt with in the Scientific Program.

Bali, Indonesia | January 17-19, 2025

PUBLICATION

The manuscripts will undergo the normal peer-review process and it is expected that the accepted papers will be published by International Journal of Structural and Civil Engineering Research (IJSCER).

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TOPICS OF INTEREST

Theoretical and Advanced Technology of Engineering Structures
High-rise Buildings and Large-span Structures
Bridge and Tunnel Engineering
Newer Structures and Special Structures
Geotechnical Engineering
Municipal Engineering
Hydraulic and Hydro-Power Engineering
Civil Engineering Materials
Engineering Structure Safety and Disaster Prevention
Building Energy Conservation and Green Architecture
Structural Reliability, Durability and Health Monitoring
Engineering Management

More topics please visit: <https://iccbm.org/cfp.html>

IMPORTANT DATES

Submission Deadline: **2024-11-10**
Notification Deadline: 2024-11-30
Registration Deadline: 2024-12-15

SUBMISSION GUIDELINE

1. Full paper submission is for publication and presentation.
2. Abstract submission is only for presentation.

Path: <https://www.zmeeting.org/submission/iccbm2025>

CONTACT US

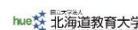
Conference Secretary: Ms. Rita Lau
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Tae Hyun Kim, Soonchunhyang University, South Korea
Osman Adiguzel, Firat University, Turkey

IMPORTANT DATES

SUBMISSION DEADLINE:

November 10, 2024

Notification Date:

November 30, 2024

Registration Deadline:

December 15, 2024

SUBMISSION METHODS

*Please prepare your full paper or abstract, and submit via link <https://www.zmeeting.org/submition/icamr2025>

*Or scan the QR code for the link:



Note: Abstract is for presentation only. If you plan to get paper published, please submit full paper.

ICAMR 2025 Call for Topics

(Included but not limited to)

•Composite Materials

Metal Matrix Composites, Ceramic Matrix Composites, Polymer Matrix Composites, Concrete and cementitious composites, Damage and fracture, Durability and ageing, Experimental techniques, Fibers and matrices, Interfaces and interphases, Interlaminar reinforcements

•Materials Properties, Measuring Methods and Applications

Ductility, Crack Resistance, Fatigue, Creep-resistance, Fracture Mechanics, Mechanical Properties, Electrical Properties, and Magnetic Properties, Corrosion, Erosion

•Materials Science and Engineering

Metallic Alloys, Tool Materials, Superplastic Materials, Ceramics and Glasses, Composites, Amorphous Materials, Nanomaterials, Biomaterials, Multifunctional Materials, Smart Materials, Engineering Polymers, Functional materials,

•Materials Manufacturing and Processing Technologies

Casting, Powder Metallurgy, Welding, Sintering, Heat Treatment, Thermo-Chemical Treatment, Thin & Thick Coatings, Surface Treatment, Machining, Plastic Forming, Quality Assessment Theoretical Fundamentals of Cleaner Production,

•Chemical Engineering and Biotechnological Research

Bio-based composites, Biomimetic composites, Bioprocess

•Nanotechnology, Nano-Materials and Nano-Composites

Different Methods for Growth of Nanostructures, Characterisation of Nanomaterials, Organic, Inorganic, and Biomedical of Nanomaterials,

•Thin Films Research

Silicon-based materials, Chalcogenidesemiconductors, Hybrid solar cells, Thin-Film Photovoltaic Devices, Structural and Physical Properties of thin Films

Special Session:

Spectroscopic Characterization of Materials
Organizer: Prof. Alfred A. Christy, Department of Science, University of Agder, Norway

HISTORY OF ICAMR

2024 Phuket

TTP:
To be online soon

2023 Singapore (Hybrid)

KEM ISBN: 978-3-0357-1648-1
Indexed by Scopus

2022 Virtual

KEM ISBN: 978-3-0357-3617-5
Indexed by Scopus

2021 Virtual

KEM ISBN: 978-3-0357-1648-1
Indexed by EI Compendex & Scopus

2020 Okinawa, Japan

KEM ISBN: 978-3-0357-1648-1
Indexed by EI Compendex & Scopus

2019 Singapore

KEM ISBN: 978-3-0357-1484-5
Indexed by EI Compendex & Scopus

2018 Fukuoka, Japan

KEM ISBN: 978-3-0357-1230-8
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