Brochure

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13th International Conference and Exhibition on

Advanced Materials and Nanotechnology



Osaka, Japan

Thursday, Oct 26-Saturday, Oct 28, 2017

http://advancedmaterials.conferenceseries.com/

Advanced Materials 2017

Invitation

Conference Series Ltd welcomes you to attend the ***13th International Conference and Exhibition on Advanced Materials and Nanotechnology,*** *which is going to be held in* ***Osaka, Japan*** *during* ***October 26-28, 2017.***

We cordially invite all the participants who are interested in sharing their knowledge and research in the arena of Nursing and Nursing Education.

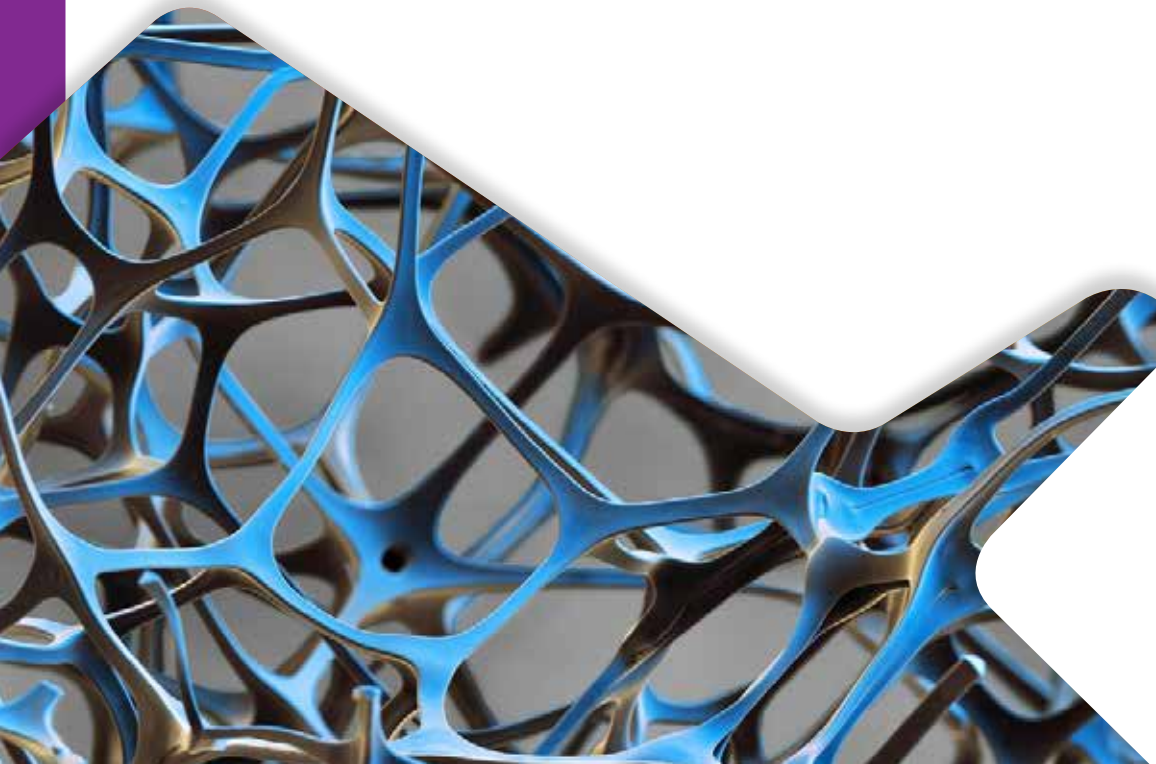
Advanced Materials 2017 anticipates more than 200 participants around the globe with thought provoking Keynote lectures, Oral Presentations and Poster Presentations. The attending delegates include Editorial Board Members of related International Journals.

This is an excellent opportunity for the delegates from Universities and Institutes to interact with the world class Scientists.

The intending participants can confirm their participation by registering for the conference along with your colleagues. Avail the delegate early bird offer.

The main theme of the conference is ***"Exploring the Possibilities in the Field of Advanced Materials and Nanotechnology".***

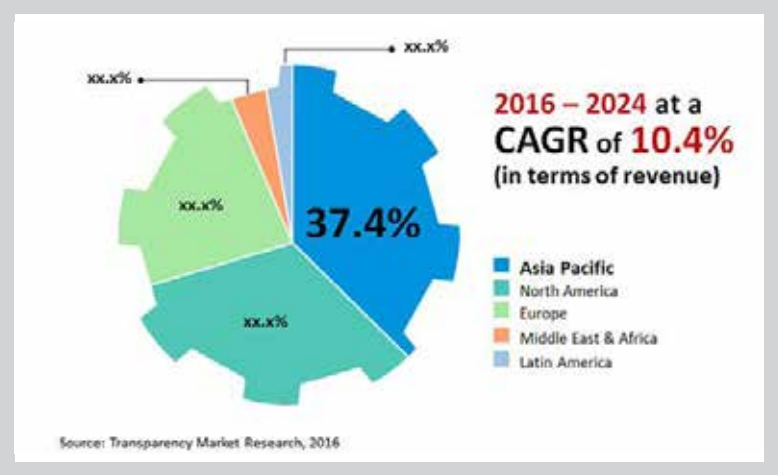
Regards,
Advanced Materials 2017
Operating Committee



Advanced Materials 2017

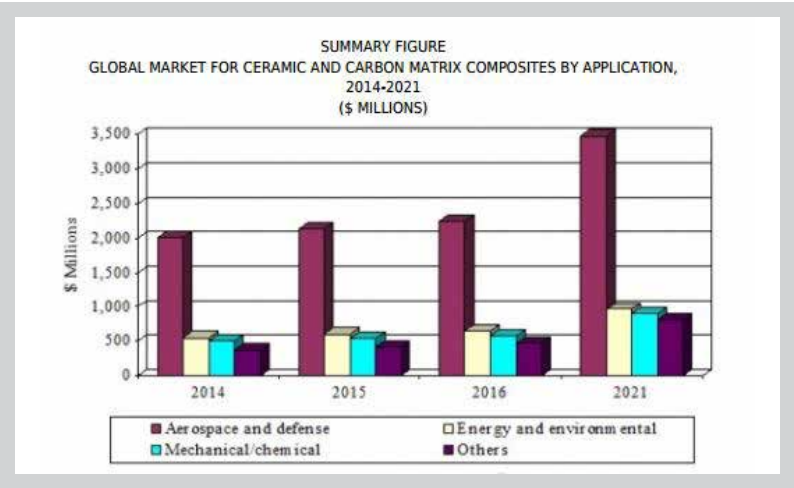
Advanced Materials & Nanotechnology Market Research

Advanced materials are known to have superior qualities as compared to traditional materials. Thus, they are used in varied applications. These materials are known to deliver excellent performance due to their exceptional strength and high endurance to tolerate fatigue. The research report states that the global advanced materials market is expected to be worth US$102.48 bn by 2024 as against US$42.76 bn in 2015. Between the years of 2016 and 2024, the global market is expected to surge at a CAGR of 10.4%.



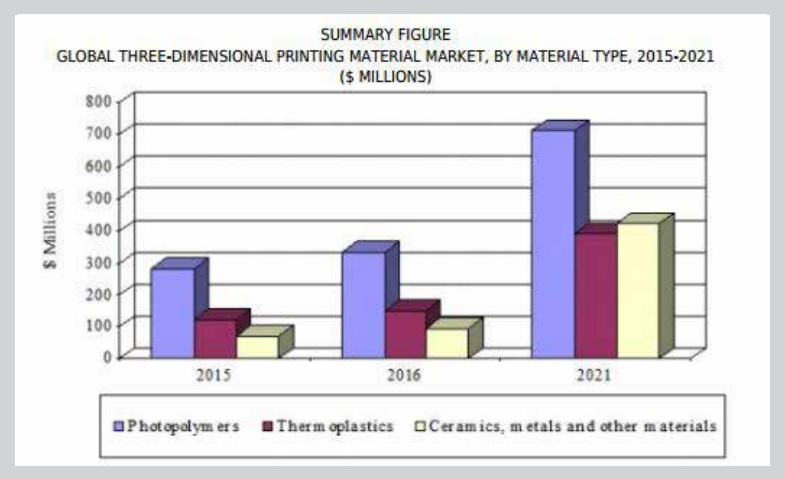
Ceramic Matrix Composites and Carbon Matrix Composites:

- *The global market for ceramic and carbon matrix composites will grow from $3.9 billion in 2016 to nearly $6.2 billion by 2021 with a compound annual growth rate (CAGR) of 9.4% for the period of 2016-2021.*
- *The aerospace and defence sector is the largest segment of the ceramic and carbon matrix composites market and will grow from nearly $2.3 billion in 2016 to nearly $3.5 billion by 2021, with a CAGR of 9.1%.*



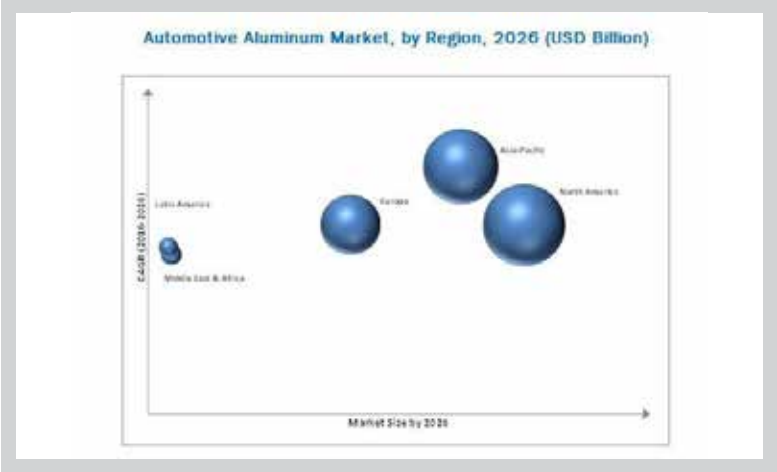
Advanced Materials for 3-D Printing:

- *The global market for 3-D printing materials reached $475.4 million in 2015. This market is expected to reach $576.6 million in 2016 and over $1.5 billion in 2021, registering a compound annual growth (CAGR) of 21.5% over the next five years.*
- *Photopolymers, the largest segment of the global market for 3D printing materials, should reach $334.6 million in 2016 and $711.8 million by 2021, increasing at a CAGR of 16.3% through 2021.*



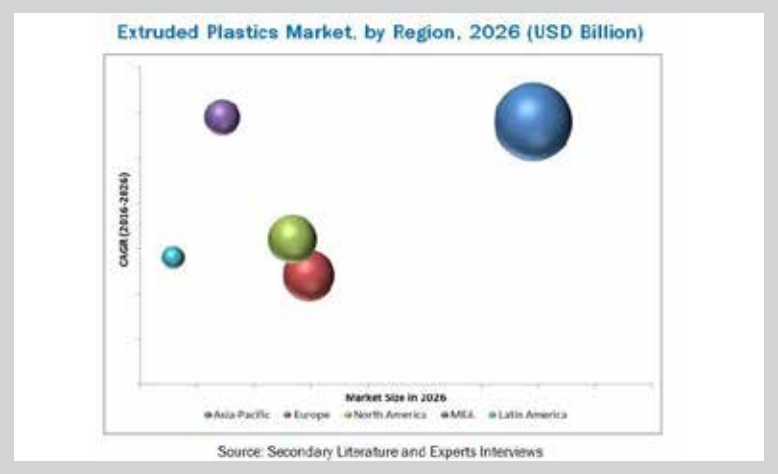
Automotive Aluminium Market:

- *The automotive aluminium market is projected to grow from USD 47.91 Billion in 2016 to USD 111.80 Billion by 2026, at a CAGR of 8.8% from 2016 to 2026.*
- *Increased demand for lightweight and efficient materials from the automotive industry is fuelling the demand for automotive aluminium as it not only reduces weight of automobile components, but also of the complete body of automobiles by up to 50%.*



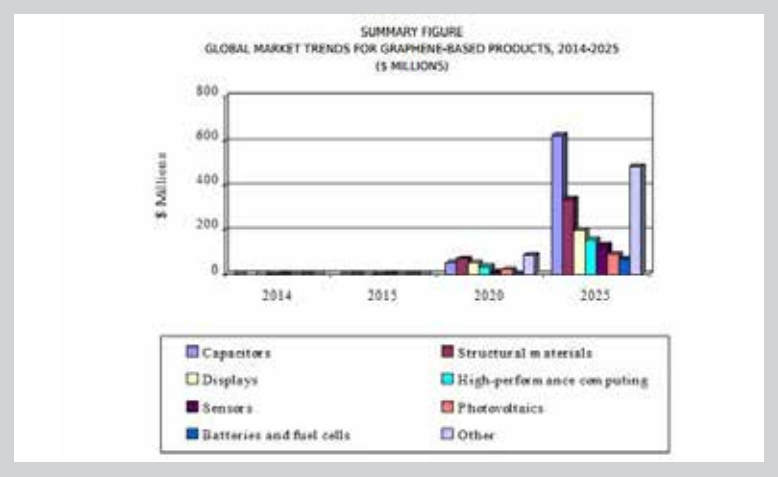
Extruded Plastics:

- *The extruded plastics market is projected to grow from USD 184.34 Billion in 2016 to USD 291.74 Billion by 2026, at a CAGR of 4.7% between 2016 and 2026.*
- *The growing demand for extrudates from the construction industry is expected to drive the extruded plastics market. Increasing demand from Asia-Pacific region from end-use industries such as packaging is also expected to fuel the demand for extruded plastics.*



Graphene:

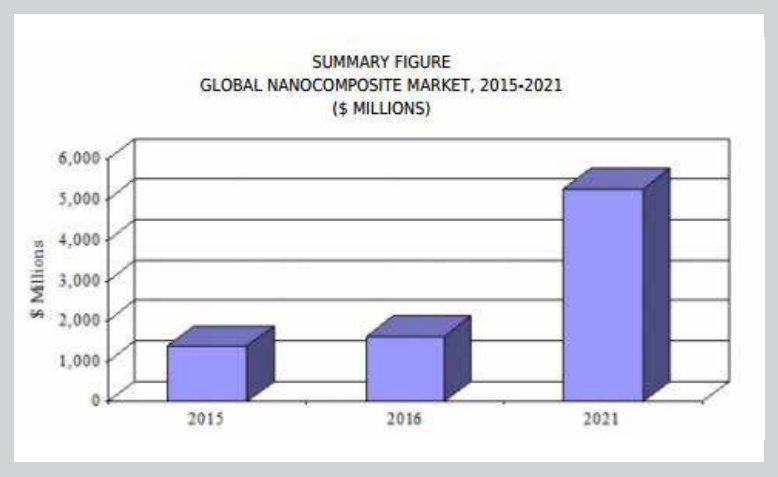
- *BCC Research estimates the global graphene-based products market to be worth $1.5 million in 2015. The market should continue to grow from $310.4 million in 2020 to $2.1 billion by 2025, with a compound annual growth rate (CAGR) of 46.3%.*
- *Capacitors dominate the graphene market and are expected to grow from $50.0 million in 2020 to $625 million by 2025, a CAGR of 65.7% through 2025.*



Nanocomposites, Nanoparticles, Nanoclays, & Nanotubes:

- *The global nanocomposite market, in value terms, should reach $5.3 billion by 2021 from $1.6 billion in 2016 at a compound annual growth rate (CAGR) of 26.7%, from 2016 to 2021.*

- *The global market, in unit terms, should reach 733,220 metric tons by 2021 from 308,322 metric tons in 2016 at a CAGR of 18.9%, from 2016 to 2021.*



Advanced Materials 2017 Research Review:

Advanced materials are known to have superior qualities as compared to traditional materials. Thus, they are used in varied applications. These materials are known to deliver excellent performance due to their exceptional strength and high endurance to tolerate fatigue. The advanced composites end market in terms of value is expected to reach around USD 24.9 Billion by 2020, growing at a CAGR of 7.2% between 2015 and 2020.

Highlights

- *The global market for 3-D printing materials reached $475.4 million in 2015. This market is expected to reach $576.6 million in 2016 and over $1.5 billion in 2021, registering a compound annual growth (CAGR) of 21.5% over the next five years.*
- *Photopolymers, the largest segment of the global market for 3D printing materials, should reach $334.6 million in 2016 and $711.8 million by 2021, increasing at a CAGR of 16.3% through 2021.*
- *Ceramics, metals, and other materials as a segment should reach $93 million in 2016 and $423.5 million by 2021 at a 35.4% CAGR through 2021.*

Automotive Lightweight Materials Market:

The automotive lightweight materials market size, in terms of value, is projected to grow at a healthy CAGR of 13.53% to reach $206.8 Billion by 2019. The automotive industry is currently witnessing a widespread adoption of advanced technologies to increase fuel efficiency, reduce emission levels, and enhance the driving dynamics of the vehicle.

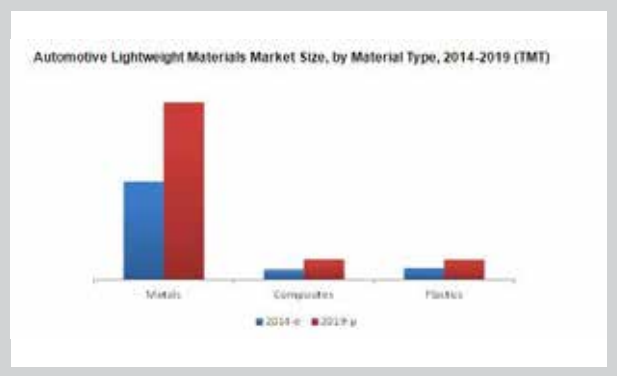
Aerospace Materials Market:

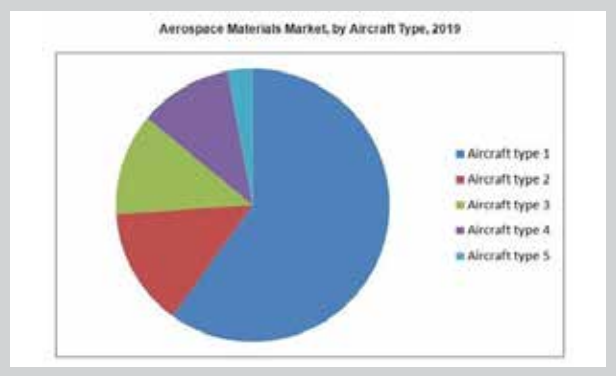
Global aerospace materials market is projected to register a CAGR of more than 6.6% between 2014 and 2019 to reach $18.5 billion in terms of value.

Aluminium alloys accounts for nearly 50.0% of the market in terms of the volume, however it represents only around 25.0% of the market in terms of the value. Demand for aluminium alloys is expected to remain flat between 2014 and 2019, but increasing usage of the composite materials and titanium alloys in the new generation of the aircrafts is expected to surge the demand for these materials in the near future.

Target Audience:

- *Materials Scientists/Research Professors*
- *Junior/Senior research fellows of Materials Science/ Nanotechnology/ Polymer Science*
- *Material science / Nanotechnology / Polymer/ Chemical Companies*
- *Material science / Nanotechnology Associations*
- *Advanced Materials and Nanotechnology Engineers*
- *Physicists/Chemists*





***Source:** BCC Research, Transparency Market Research & Markets and Markets*

About Us

International Journals

- *900 Open Access Journals*
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- *Panel discussions and interactive sessions*
- *B2B meetings*
- *Perfect platform for Global Networking*

Key features

- *Presentation by renowned speakers from all over the world*
- *Poster presentations and world class exhibits*
- *Interactive Sessions*
- *Platform for global networking*
- *Connecting scientific community*

Special Issues

All accepted abstracts will be published in respective Supporting International Journals

Each abstract will be provided with digital Object Identifier by crossref



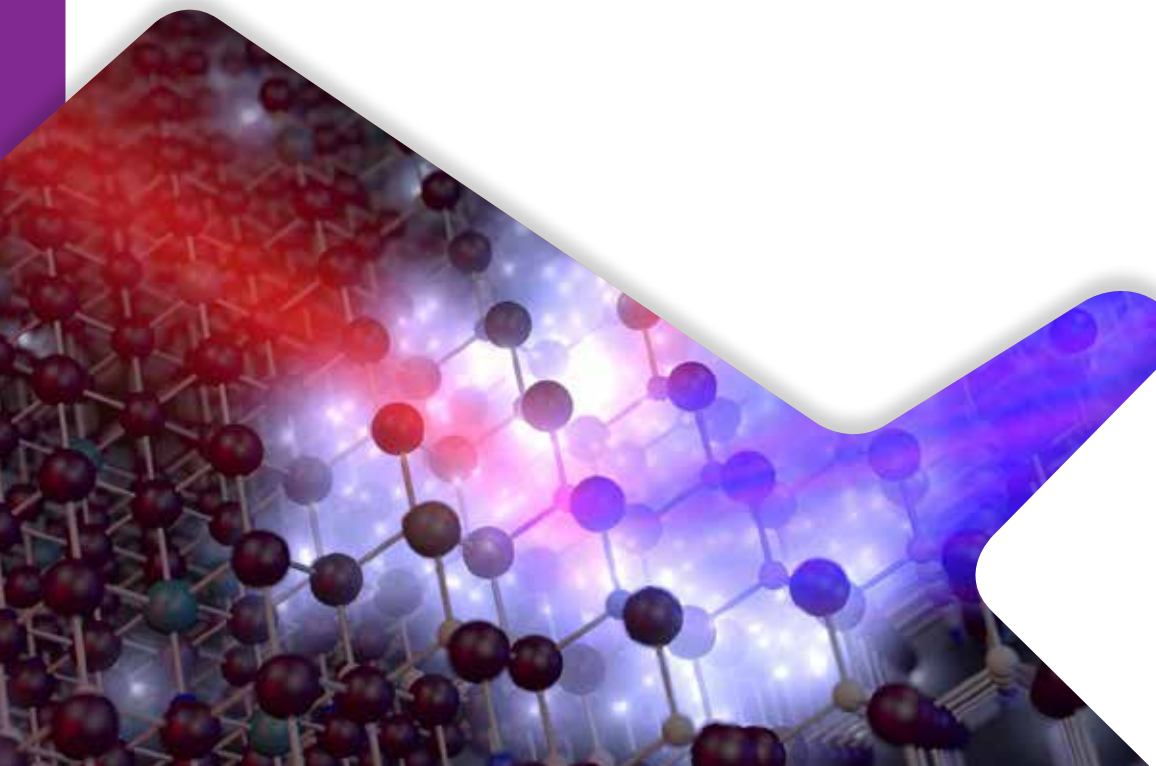
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About Conference

The field of Nursing and Nursing Education is growing rapidly and its development is making tremendous impacts in nursing. The importance and significance can be gauged by the fact that it has made huge advancements over the course of time and is continuing to influence various sectors.

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- *Opportunity to attend the presentations delivered by eminent scientists from all over the world*
- *Selected contributions will be published in following Conference Series Ltd Journals*
    - *Journal of Material Sciences & Engineering*
    - *Journal of Powder Metallurgy & Mining*
    - *Bioceramics Development and Applications*
    - *Nanomedicine &Biotherapeutic Discovery*
    - *Nanomaterials & Molecular Nanotechnology*
- *Participation in sessions on specific topics on which the conference is expected to achieve progress*
- *Global networking: In transferring and exchanging Ideas*
- *Share your excitement in promoting your skills in the field of designing*
- *Conference brings together Scientific Researchers, Business Entrepreneurs and Industry Developers*



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About Osaka

Osaka is the second largest metropolitan area in Japan and serves a major economic hub. Historically a merchant city, Osaka has also been known as the "Nation's Kitchen". With a population of 2.5 million, Osaka is Japan's third largest and second most important city. It has been the economic powerhouse of the Kansai region for many centuries. The city's west side has the main port as well as a tourist destination with attractions such as Kyocera Dome, Universal Studios Japan, Osaka aquarium, Minami, Osaka castle, Umeda sky building and the Tempozan Harbour Village. Osaka is known for its food, both in Japan and abroad. Author Michael Booth and food critic François Simon of Le Figaro have both suggested that Osaka is the food capital of the world. Osaka's culinary prevalence is the result of a location that has provided access to high quality ingredients, a high population of merchants, and close proximity to the ocean and waterway trade. In recent years, Osaka has started to garner more attention from foreigners with the increased popularity of cooking and dining in popular culture. The National Museum of Art (NMAO) is a subterranean Japanese and international art museum, housing mainly collections from the post-war era and regularly welcoming temporary exhibitions. Osaka Science Museum is in a five storied building next to the National Museum of Art, with a planetarium and an OMNIMAX theatre. The Museum of Oriental Ceramics holds more than 2,000 pieces of ceramics, from China, Korea, Japan and Vietnam, featuring displays of some of their Korean celadon under natural light.



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Contact us

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Important Dates

Abstract submission opens: December 05, 2016
Registration opens: December 26, 2016
Early bird registration: May 29, 2017
On spot registration: October 26, 2017



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