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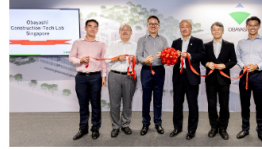
AM MATTERS
Q3 2024

Supported by  NATIONAL RESEARCH FOUNDATION
FROM SCIENCE TO INNOVATION

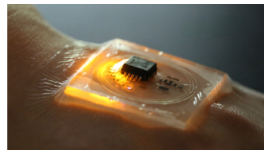
SINGAPORE HIGHLIGHTS



[Maritime and Port Authority of Singapore](#) announced a partnership with the [American Bureau of Shipping](#) to develop a framework for digital rapid qualification of marine parts made with additive manufacturing (AM). This aims to address challenges in the qualification of AM applications and increase the technology adoption within maritime. [Read more.](#)



[Obayashi Corporation](#) launched its Asia R&D base in Singapore as a hub for fostering and deploying novel construction productivity technologies in Asia. It will also enter into a partnership with NTU SC3DP and SUTD to develop construction 3D printing, sustainable materials and robotics technology and support the application to construction sites in Asia. [Read more.](#)



A research team from [National University of Singapore](#) has developed CHARM3D, a tension-driven state-of-the-art technique, to fabricate three-dimensional, self-healing electronic circuits. This new technique enables the 3D printing of free-standing metallic structures without requiring support materials and external pressure. [Read more.](#)

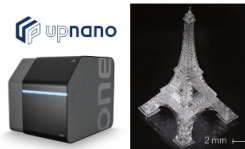


Researchers from Singapore harnessed the potential of 3D printing for fabricating complex topologies to produce efficient solar steam generators for desalination, potentially addressing the issue of freshwater scarcity. The team also introduced a novel method for printing functional nanocomposites for multi-jet fusion. [Read more.](#)

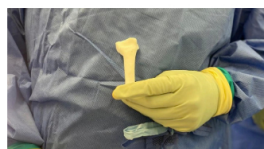
INDUSTRY HIGHLIGHTS



[BigRep](#), a leader in large-format FFF 3D printing, has officially listed on Frankfurt Stock Exchange after merger with [SMG Technology Acceleration SE](#). This move aims to accelerate the company's growth and innovation, positioning it for expanded global reach and market leadership. [Read more.](#)



[UpNano](#) and [Glassomer GmBH](#) have collaborated to develop a rapid 3D printing process capable of producing high-resolution and high-precision fused quartz objects in the millimeter to centimeter range. This innovation is suited for larger 3D-printed glass parts in the fields of engineering, chemical, medical or research applications. [Read more.](#)



[Warwickshire NHS Foundation Trust](#) achieved another milestone by performing its first 3D-printed, patient-specific wrist implant surgery.



[SpaceX](#) debuted its Raptor 3 engine produced using extensive metal additive manufacturing technology. The lighter, greater thrust and

This advancement in personalised medicine has enhanced surgical precision and patient outcomes, positioning the hospital as a leader in medical innovation. [Read more.](#)



[Renishaw](#), [Lotus Engineering](#) and [Hope Technology](#) collaborated with the British Cycling team to 3D print track bike components specifically for Team GB's athletes in Paris Olympics 2024. The bikes, optimised for aerodynamics and weight, allowed the team to set a new world record in the sprint track cycling event. [Read more.](#)

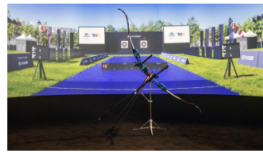


[Auto Additive](#) has begun shipping out its first order of 3D-printed weldable headlight tabs engineered in collaboration with [Headlights.com](#) using advanced polypropylene material compatible with OEM requirements. This move is a part of its broader strategy to leverage 3D printing for automotive repairs. [Read more.](#)

efficient engine features a more elegant design with internalised secondary flow paths and regenerative cooling for exposed components. [Read more.](#)



[Al Seer Marine](#) in collaboration with [CFAD](#), [Mitsubishi Chemicals](#), [Siemens](#), [Torqeedo](#) and [TASNEEF](#), manufactured the world's first 3D-printed Abra in Dubai, marking a significant leap in maritime transport technology. The innovation promises to revolutionise the efficiency and sustainability of Dubai's water transport system, aligned with the city's vision of a greener future. [Read more.](#)



[Hyundai Motor Company](#) launched The Path of An Archer, an innovative and immersive archery experience showcasing the fusion of sports and advanced technology in Korea. The exhibition will allow visitors to directly experience Hyundai's archery technology such as the self-adjusting shooting robot and customised 3D-printed bow grips. [Read more.](#)

UPCOMING EVENTS



Held alongside IBEW, BEX Asia 2024 returns for its 17th edition to showcase innovative sustainable building solutions and promote green building practices in Asia. Join over 7,000 industry professionals to unlock the future of built environment and explore how additive manufacturing is revolutionising the space, incorporating eco-friendly technologies that drive sustainability across the region. Click [here](#) for more information.

Date: 4 to 6 September 2024

Venue: Marina Bay Sands



The NAMIC Start-up Innovation Forum is Asia Pacific's largest additive manufacturing (AM) startup event, aimed at growing AM startups while showcasing cutting-edge innovations. Held in collaboration with Enterprise Singapore and SLINGSHOT, global deep tech startups compete for a chance to win S\$300,000 in grants and SLINGSHOT 2024 Grand Finals entry. Click [here](#) for more information.

Date: 27 September 2024

Venue: The Greenhouse, SMU



The 13th edition of NAMIC's Global Additive Manufacturing Summit, held in conjunction with ITAP, is Singapore's flagship in-person and virtual AM business event, bringing together global thought leaders, entrepreneurs and leading AM application experts. This edition



The Singapore Week of Innovation and Technology (SWITCH) is a global innovation platform connecting startups, investors and industries in sectors like healthcare and sustainability. It features SLINGSHOT, a major startup competition with prizes of up to S\$200,000.

will discuss topics in AM strategies, sustainability, AI, aerospace, and digital workflow in AM. [Register here.](#)

Date: 15 & 16 October 2024
Venue: Max Atria, Singapore Expo



The International Conference on Advanced Manufacturing 2024 is a technical conference centered on additive manufacturing, covering research, applications and advancements in 3D printing. Engineers, academics and industry professionals come together to discuss developments in aerospace, defense, medical and other industrial sectors. [Register here.](#)

Date: 28 October to 1 November 2024
Venue: Atlanta, GA



Formnext is a leading global trade fair focused on industrial 3D printing, showcasing cutting-edge materials, processes and other innovations, connecting key players in sectors like aerospace, automotive, medical technology and energy for advanced manufacturing solutions. Click [here](#) for more information.

Date: 19 to 22 November 2024
Venue: Messe Frankfurt, Germany

SS\$800,000, driving collaboration, showcasing technologies and fostering market expansion globally. Click [here](#) for more information.

Date: 28 to 30 October 2024
Venue: Marina Bay Sands



OSEA is Asia's leading event for the oil, gas, and energy sectors, highlighting innovations driving the industry's future. This edition will include additive manufacturing applications demonstrating new possibilities in offshore energy production, enhancing sustainability and operational efficiency, while connecting attendees with global industry leaders and cutting-edge technology trends. [Register here.](#)

Date: 19 to 21 November 2024
Venue: Marina Bay Sands



3D Printing and Additive Manufacturing Conference highlights the latest trends and technological advancements in 3D printing across industries. It features workshops, panel discussions and networking opportunities, aiming to foster innovation and collaboration among AM professionals. [Register here.](#)

Date: 2 to 4 December 2024
Venue: Prague, Czech Republic

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