

Fabrication Additive

Bulletin de Veille - 31 octobre 2018

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GÉNÉRALITÉS

MX3D expose son pont d'acier imprimé en 3D au Dutch Design Week

23/10/2018 - www.primante3d.com

Le MX3D bridge est probablement l'une des réalisations les plus ambitieuses et impressionnantes en matière de construction 3D. Achevé en septembre dernier, le pont d'acier imprimé en 3D est actuellement exposé à la Dutch Design Week de Eindhoven, la plus grande manifestation de l'année des Pays-Bas consacré au design. Les performances et la sécurité seront évaluées entre les deux et les informations seront renvoyées pour informer les futurs modèles de ponts métalliques imprimés en 3D.

AÉROSPATIAL

Le TCT récompense une imprimante 3D de l'ESA capable d'imprimer dans l'espace

19/10/2018 - www.primante3d.com



Lancé en 2016, le projet « MELT » (pour Manufacturing of Experimental Layer Technology), est le fruit d'un consortium dirigé par la société allemande Sonaca Space GmbH, le fabricant d'imprimantes 3D portugais BEEVERYCREATIVE, Active Space Technologies SA et la société allemande OHB-System AG. Prémisse de la MELT, cette machine 3D baptisée Zero-G (zéro gravité), était la première imprimante 3D envoyée à bord de la Station Spatiale Internationale.

Made In Space dessine l'avenir de l'impression 3D dans l'espace

22/10/2018 - www.3dnatives.com

Elle a déjà développé plusieurs projets comme son imprimante 3D Zero Gravity, capable de concevoir des pièces en apesanteur, ou son bras robotique Archinaut qui peut assembler des pièces imprimées en 3D. Avec ce projet, nous avons associé la technologie d'impression 3D ESAMM (extended structure additive manufacturing machine) à des manipulateurs robotiques de pointe pour la fabrication et l'assemblage de grandes structures dans l'espace.

CONCEPTION

L'intuitivité du logiciel EOSPrint 2 récompensée par le Red Dot Design Award

30/10/2018 - www.primante3d.com

Le spécialiste allemand de l'impression 3D métal et polymère EOS, a aujourd'hui annoncé avoir reçu conjointement avec UseTree, son partenaire de développement du design UX, le prix de la meilleure interface utilisateur aux Dot Communication Design Awards 2018 pour le logiciel

- UTEP creates “world first” volumetric circuit with automated 3D printing

- Fraunhofer IKTS researchers use FFF 3D printing to make harder 3D metal prints

MATÉRIAUX

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- Nanogrande brings ‘metal particle assembly’ to Additive Manufacturing market

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RÉGLEMENTATION / BREVETS

- Apple granted patent for faster 3D printers

EOSPRINT 2. Il est conçu pour définir et optimiser les paramètres de fabrication des informations de CAO pour l'impression 3D industrielle sur les systèmes EOS. additive

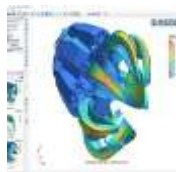
3D Printing News Sliced: Magic Leap, EOS, Evonik, America Makes, PostProcess Technologies

30/10/2018 - 3dprintingindustry.com

.Ronald Rael, co-founder, and CEO of Emerging Objects , a San Francisco Bay Area 3D printing “MAKE-tank”, will present the lecture “Alternative Materials for 3D Printing in Design, Art and Architecture” at Western New Mexico University (WNMU) as part of its Emerging Technologies and Creative Commerce lecture series. Image via Magic Leap. Big Systems LLC , a wide format printer reseller based in Wisconsin, has signed an agreement with Taiwanese 3D printer manufacturer XYZ Printing , to distribute its range of consumer-grade products in the Midwest.

Altair acquires SIMSOLID for additively manufactured lattice simulation

19/10/2018 - 3dprintingindustry.com



Altair , a 3D design and simulation software developer based in Michigan, has acquired SIMSOLID , a CAD software company developing simulation technology for designers, engineers, and simulation analysts. Last year, Altair added Additive Works’ Amphyon program , the simulation of powder bed based 3D printing processes, to its HyperWorks software suite. For more on the latest additive manufacturing news, subscribe to the 3D Printing Industry newsletter , like us Facebook and follow us on Twitter. ..

TECHNOLOGIES

Nuclear technique helps predict critical deposition heights for laser additive manufacturing

10/10/2018 - www.3ders.org

Australian and Indian researchers have developed a new theoretical model that successfully predicts the residual stresses and critical deposition heights for laser additive manufacturing. "Understanding the stresses and being able to predict them is very important for additive manufacturing industry. The study authors suggested demonstrated a science-enabled technology solution that could lead to an improvement in the quality, safety and economics of components manufactured with laser additive processes. Posted in 3D Printing Technology.

Mitsubishi develops precision metal 3D printing using “dot forming” DED technology

25/10/2018 - 3dprintingindustry.com

Earlier this year, researchers at the University of West England’s Centre for Fine Print Research (CFPR), Bristol, used the Mitsubishi Electric MELFA RV-Series robotic arm to create complex 3D printed patterns. At formnext 2018, Mitsubishi Chemical will display, for the first time, a wide range of 3D printing materials. For more news on 3D printing, subscribe to our 3D printing newsletter. metals ... heat ... cobalt ... manufacturing ...

UTEP creates “world first” volumetric circuit with automated 3D printing

25/10/2018 - 3dprintingindustry.com

- Lockheed Martin becomes first UL certified Additive Manufacturing Facility



The Electromagnetics and Photonics Lab (EM Lab) of the University of Texas at El Paso (UTEP) has developed an automated process for 3D printing electronics. In a research paper recently published in IEEE Transactions on Components, Packaging and Manufacturing Technology journal, the team demonstrate the ability to realize circuits as 3D printed tower and bridge structures. Stay updated with the latest in additive manufacturing research by subscribing to the 3D Printing Industry newsletter.... electrically ...

Fraunhofer IKTS researchers use FFF 3D printing to make harder 3D metal prints

22/10/2018 - www.3ders.org



The modern binder jetting 3D printing and the thermoplastic 3D printing (3DTP) have already been successfully used by IKTS with selected hard metal compositions. Dr. Johannes Pötschke heads the Hardmetals and Cermets group at IKTS and confirms: "The filaments can be used as semi-finished products in standard 3D printers and, for the first time, make it possible to print hardmetals with a very low metal binder content of only eight percent and a fine grain size below 0.8 micrometers and thus allow extremely hard components with up to 1700 HV10. .

MATÉRIAUX

LIFT: University of Twente researchers 3D print pure gold 'micro jewels' using laser technique

30/10/2018 - www.3ders.org

Dutch researchers at University of Twente has developed a new metal 3D printing technique which allows a laser apparatus to print metal structures drop by drop, including in pure gold, on the few micron scale. However, these new methods are not yet suitable for the 3D printing of metals on a scale with feature sizes of smaller than about 10µm, which would be interesting for electronics. The ability to create fully free-standing and overhanging structures is crucial for printing complex 3D devices. Posted in 3D Printing Technology.

Nanogrande brings 'metal particle assembly' to Additive Manufacturing market

22/10/2018 - www.metal-am.com

Nanogrande's new system uses a patented method which makes it possible to assemble metal particles of different sizes, shapes and types at nanoscale (Courtesy Nanogrande). Nanogrande, Montreal, Quebec, Canada, will officially launch its new Additive Manufacturing system at Fabtech, November 6-8, 2018, in Atlanta, Georgia, USA. "Current 3D printing technologies are limited in their ability to layer particles smaller than 20 µm," he explained.

MARKET / BUSINESS

Burloak Technologies dit oui à l'impression 3D métal de Sciaky pour fabriquer de grandes pièces en titane

27/10/2018 - www.primante3d.com



L'impression 3D métal, souvent associée aux techniques à fusion laser sur lit de poudre, se décline pourtant sous éventail de procédés bien plus diversifié qu'il n'y paraît. Spécialisée dans les solutions de fabrication d'additive métalliques notamment pour l'aérospatiale et la défense, la société a dernièrement fait

l'acquisition d'une imprimante 3D EBAM 110 de Sciaky, l'un des systèmes phares de la technologie DED.

3D Printing Solutions by Arkema, a New Commercial Platform Dedicated to 3D Printing

25/10/2018 - www.azom.com



The new platform will leverage an extensive range of materials dedicated to each of the major 3D printing technologies, a proven expertise, and strategic partnerships with key players in additive manufacturing. Thus "3D Printing Solutions by Arkema" will support the 3D printing sector as it grows into an industrial manufacturing technology. 3D Printing Solutions by Arkema will boost the Group's positioning in this market and will help us, together with our partners, develop 3D printing into an industrial manufacturing technology. .

UPS et la fabrication additive : vers une dématérialisation des stocks?

25/10/2018 - www.3dnatives.com



La fabrication additive crée des opportunités en termes de manufacturing-as-a-service puisqu'on commence à produire des pièces selon le besoin des utilisateurs et non plus en volume. Je reste convaincu que la fabrication additive trouvera de plus en plus sa place dans le monde de l'industrie, et les possibilités offertes par le nouveau business modèle de manufacturing-as-a-service trouveront leur place, notamment sur les services à valeur ajoutée et l'exploitation de la data.

Xerox CEO announces 3D printing roadmap, 3D printer in 2019?

24/10/2018 - 3dprintingindustry.com



Xerox , the U.S manufacturer of printers and photocopiers, plans to "participate" in the 3D printing industry, according to a new statement by the CEO. Speaking to 3D Printing Industry, a Xerox spokesperson confirmed that the full details of the 3D printing project will not become more apparent until an investor day scheduled for February 2019. By calling out the 3D printing trifecta of hardware, software and material it is not much of a leap to imagine Xerox bringing a 3D printing system to market.

BeAM to exhibit Modulo 250 Directed Energy Deposition machine at Formnext 2018

29/10/2018 - www.metal-am.com



BeAM, Strasbourg, France, will exhibit its Modulo 250 Directed Energy Deposition (DED) machine for metal Additive Manufacturing at Formnext 2018, to be held in Frankfurt, Germany, November 13-16, 2018. Designed for research, process development and the production of small parts, it is currently in use at the University of People's Friendship (RUDN), Moscow, Russia, and the Laboratory for Advanced Process and Sustainability (LAPRAS), São Carlos, Brazil.

EVÈNEMENTS / ÉTUDES

Retour du salon Formnext du 13 au 16 novembre : rencontre avec Sascha Wenzler

18/10/2018 - www.primante3d.com



Le développement cohérent de Formnext, en collaboration avec les partenaires et les industries participantes, pour se départir d'un simple salon de l'impression 3D vers un processus de fabrication industrielle moderne avec la fabrication additive comme noyau fort de la marque Formnext. .

[Find Prodways, Farsoon, Stratasys, Sabc and more 3D printing at Formnext 2018](#)

25/10/2018 - [3dprintingindustry.com](#)

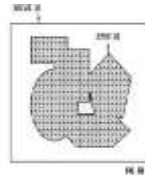


For the first time at this particular show, the company will also show its latest parts made using its elusive metal 3D printing technology , and an 8-axis Robotic Composite 3D Demonstrator. "Xaar's HL Technology combined with the fast, scalable nature of inkjet printing delivers true volume production and high productivity 3D printing," says Simon Kirk, Senior Product Manager at Xaar, "This, together with our range of proven printheads, means we can provide integrators with a solution suitable for their specific 3D print applications. .

RÉGLEMENTATION / BREVETS

[Apple granted patent for faster 3D printers](#)

24/10/2018 - [3dprintingindustry.com](#)



Following this, in 2017, Apple patented "Method for instructing a 3D printing system " and subsequently a further application for the aforementioned full color 3D printer. For all of the latest 3D printing rumors, product releases and news subscribe to the 3D Printing Industry newsletter , join us on Facebook and on Twitter. For new opportunities across additive manufacturing visit 3D Printing Jobs.

[Lockheed Martin becomes first UL certified Additive Manufacturing Facility](#)

23/10/2018 - [3dprintingindustry.com](#)



Melissa Albrecht, an additive manufacturing global program manager at UL, concludes, "The introduction of new advanced manufacturing technologies has the potential to transform modern industrial production,". For all the latest updates of standards and policy making for additive manufacturing subscribe to the 3D Printing Industry newsletter , join us on Facebook and on Twitter. For new opportunities across additive manufacturing visit 3D Printing Jobs.

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