

23rd of
May



2nd French-Japanese Workshop on Additive Manufacturing

Room 1, 1F

9h – 9h10 : **Opening words from Mr.Nobuhiro Hayashi**, vice-president for international affairs at Tokyo Institute of Technology

9h10 – 9h20 : **Presentation of the Office for Science and Technology, French Embassy to Japan by Mr. Didier Marty-Dessus**, counsellor for Science and Technology, Office for Science and Technology

9h20 – 9h30 : **Presentation of NIMS by Mr.Makoto Watanabe**, field director, research center for structural materials at NIMS

9h30 – 9h40 : **Presentation of SFJTI by Mr.Toyohiro Chikyow**, director of the external collaboration Division at NIMS and director and editorial comitee member at SFJTI

9h50 – 11h50 : Transverse keynotes

9h50 – 10h20 : Mr. Shota Inoue, Engineer at JAXA - « *JAXA's initiatives for 3D Printing Application in Manned Space Program - JEM Intravehicular Camera Robot* »

10h20 – 10h50 : Mr.Jacques Babaud, AM Business Manager at Nihon Michelin Tire - **Mrs.Pauline Le Borgne**, general manager at Matcor Technology & Service Pte Ltd, a CETIM company - **Mr.Masamichi Ogawa**, GAM secretariat at Gunma AM Platform – **Mme.Hiroko Suzuki**, president of Kyowa Industrial Co. Ltd - « *special panel discussion on Education for AM, perspectives from France and Japan* »

10h50 – 11h20 : Mr. Masahiro Tsukamoto, professor at Osaka University, - « *Development of additive manufacturing technologies using high-intensity blue diode lasers for the realization of a carbon-neutral society* »

11h20 – 11h50 : Mr.Benoit Dodin, R&D team manager at SNCF - « *How additive manufacturing transforms rolling stock maintenance in railways* »

Lunch Break

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14h – 18h15 : Parallel sessions

Materials 1 (Room 1, 1F)

Chair : Hidemitsu Furukawa

14h – 14h30 : Mr.Zhongkui Wang, Ritusmeikan University - « *3D/4D printing for soft robotics applications* »

14h30 – 15h00 : Mr.Takafumi Yamaaki, AM business application engineer at Nihon Michelin Tire – « *Possibility of positive LCA impact with AM, example of a tire mold* »

15h00 – 15h30 : Mr.Quentin Muller, specially appointed researcher at the Graduate School of Engineering at Osaka University – « *Bovine Cultured Meat : creation, cell culture and bioprinting in an edible way* »

15h30 – 15h50: Q/A session

Processes 2 (Room 1, 1F)

Chair : Toyohiro Chikyow

16h15 – 16h45 : Mr.Kozo Koiwa, assistant manager at the development group of the 3D additive manufacturing project at JEOL – « *Recent progress of Additive Manufacturing by electron beam* »

16h45 – 17h15 : Mr.Shingo Hirose, chief senior researcher at AIST - « *Process Informatics Approach: Quality Control of Laser DED Process Using Machine Learning* »

17h15 – 17h45 : Mr.Frédéric Vignat, associate professor at Grenoble University - « *Wire Arc Additive Manufacturing: how to manage bead shape* »

17h45 – 18h15: Q/A session

Processes 1 (Room 2, 2F)

Chair : Elodie Paquet

14h – 14h30 : Mrs.Elodie Paquet, associate professor at Nantes University - « *Robot and large scale additive manufacturing process* »

14h30 – 15h00 : Mr.Henri Bernard, president of Adaxis - « *Robotic additive manufacturing applied to the production, repair, and hybridation of large and complex-shaped parts* »

15h00 – 15h30 : Mr.Yusuke Sugahara, associate professor at TokyoTech - « *Robotic mechanisms for large scale - automation* »

15h30 – 15h50: Q/A session

Materials 2 (Room 2, 2F)

Chair : Makoto Watanabe

16h15 – 16h45 : Mr.Eric Charkaluk, senior researcher and head of GIS-HEAD laboratory (CNRS) and professor at Ecole Polytechnique - « *Metal AM challenges : place of CNRS in French contributions* »

16h45 – 17h15 : Mr.Shiro Torizuka, Hyogo University - « *Evaluation for change in dislocation density in high temperature deformation of 3D fabricated Hastelloy X alloy by in-situ X-ray diffraction during tensile test using Synchrotron radiation* »

17h15 – 17h45 : Mr.Tomonori Kitashima, principal researcher at NIMS - « *Single-crystal-structure and uniform-texture formations of cubic crystals in laser powder bed fusion* »

17h45 – 18h15: Q/A session

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2nd French-Japanese Workshop on Additive Manufacturing

9h – 11h00 : Parallel sessions

Processes 3 (Room 1, 1F)

Chair : Antoine Leduigou

9h – 9h30 : Mr.Antoine Leduigou, associate professor, Bretagne Sud University – « *Biomimicry and 4D printing for innovative composites* »

9h30 – 10h00 : Mr.Vincent Duplan, open innovation manager at AirLiquide – « *Accelerate the development of new medical devices by additive manufacturing. Metal and silicone additive manufacturing examples to be presented* »

10h00 – 10h30 : Mr.Tong Huang, business development engineer at the High Performance Polymers Department of Arkema – « *ABC material polyamide 11 for additive manufacturing and applications* »

10h30 – 10h50: Q/A session

Materials 4 (Room 1, 1F)

Chair : Mickael Perrut

11h15 – 11h45 : Mr.Nobuhiro Yasui, manager of the R&D headquarters at Canon Inc. – « *Additive manufacturing for Al₂O₃ based ceramics by Selective Laser Melting* »

11h45 – 12h15 : Mr.Soshu Kiriara, Osaka University - « *Stereolithographic Additive Manufacturing for Practical Components with Fine Ceramic Structures* »

12h15-12h45 : Mr.Mickael Perrut, research engineer at ONERA – « *Additive manufacturing for aerospace materials : recent activities at ONERA* »

12h45 – 13h05 : Q/A session

Materials 3 (Room 2, 2F)

Chairs : Olivia Kerouredan & Josephine Galipon

09h – 09h30 : Mr.Shoji Takeuchi, professor at the University of Tokyo – « *3D printing of biohybrid systems* »

09h30 – 10h00 : Mrs.Olivia Kerouredan, associate professor at the Laboratory of Biomaterials at the Institute for Life and Medical Sciences, Kyoto University & INSERM, Bordeaux University – « *Development of a novel biopaper to promote bone regeneration using laser-assisted bioprinting* »

10h00 – 10h30 : Mrs.Josephine Galipon, associate professor at the Faculty of Engineering, Yamagata University and project assistant professor at the Institute for Advanced Biosciences of Keio University – « *Applications of 3D manufacturing in biomimetics research* »

10h30 – 10h50 : Q/A session

Processes 4 (Room 2, 2F)

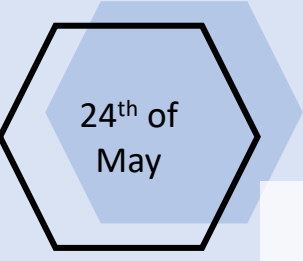
Chair : Masahiro Kusano

11h15 – 11h45 : Mr.Masahiro Kusano, senior researcher at NIMS – « *Understanding and Controlling Thermal History in Laser Powder Bed Fusion Process Based on Multi-scale Thermal Analyses* »

11h45 – 12h15 : Mr.Astushi Umezaki, DELMIA Industry Process Consultant - at Dassault Systemes - « *Additive Manufacturing in the virtual factory* »

12h15-12h45 : Mr.Nabil Anwer, Professor at Paris Saclay and Deputy Director of the automated production research laboratory - « *Digital twins for Additive Manufacturing - new challenges, opportunities and future directions for Product specifications and verification* »

12h45 – 13h05: Q/A session



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Lunch Break

Room 1, 1F

14h30 – 16h30 : Restitution of all the topics by chairs and perspectives (5 min each)

16h35 – 17h20 : Exemples of collaboration between France and Japan in the additive manufacturing fields

16h35 – 16h50 : Mr.Nicolas Mary, associate professor at ElyTMax, INSA Lyon **and Mr.Jérôme Adrien**, research engineer at MATEIS, INSA Lyon – « *Presentation of the MATEIS laboratory and the partnership with Japan « ElyTmax »* »

16h50 – 17h05 : Mr.Vincent Fridrici, associate professor at LTDS, Ecole Centrale de Lyon – « *Presentation of the LTDS laboratory and the network with Japan « ElyTGlobal »* »

17h05 – 17h20 : Mrs.Virginie Roche, associate professor at LEPMI, Grenoble INP – « *Presentation of the LEPMI laboratory and possible partnership with Japan »* »

17h25 – 17h35 : Mr.Alain Bernard, emeritus professor at Ecole Centrale de Nantes, Vice-President of France Additive, fellow of French Academy of Technology – « *Remote presentation on France Additive »* »

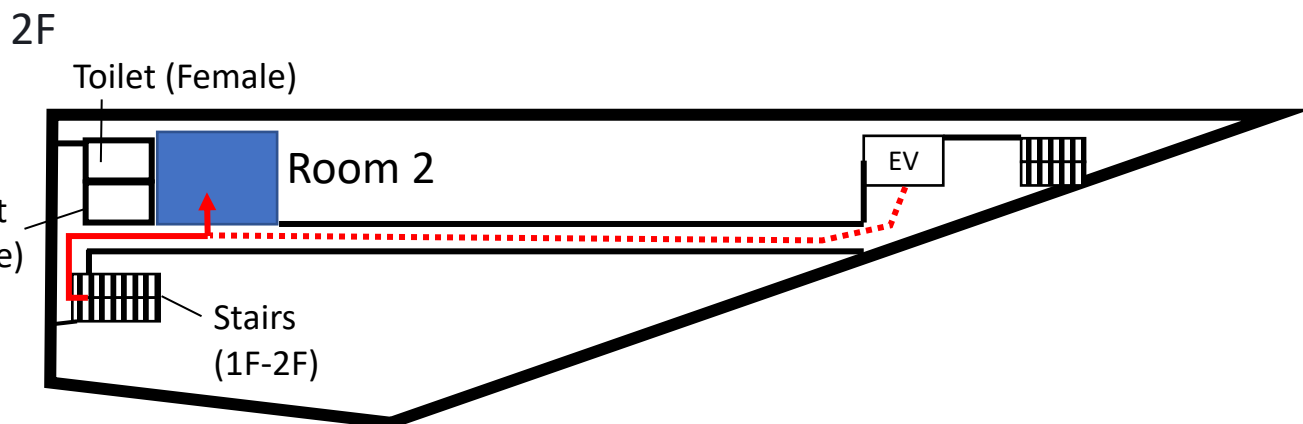
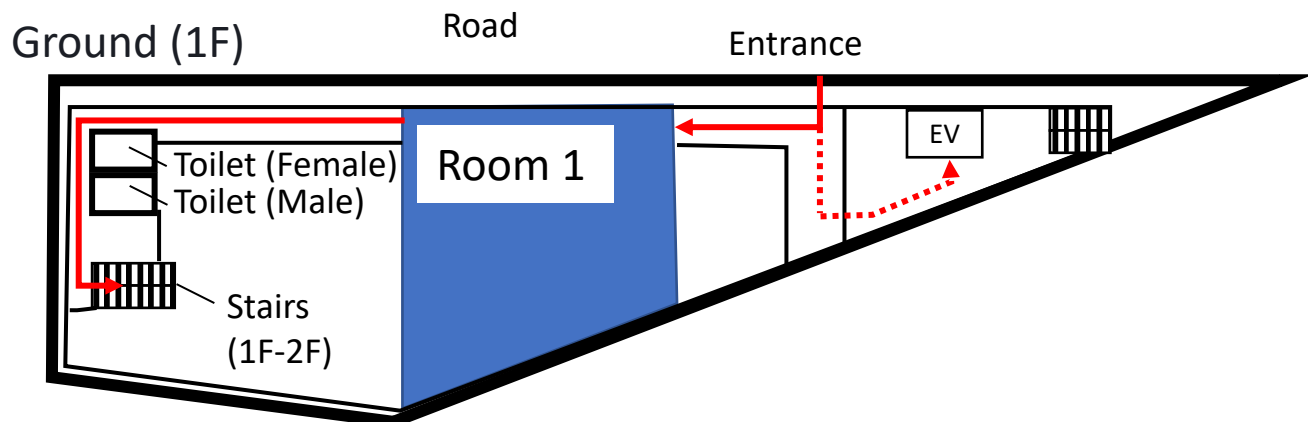
17h35 – 17h55 : Mr.Hidemitsu Furukawa, professor at Yamagata University - « *Recent Advances in 3D/4D Printing of Soft Materials : Implications for Learning and Education »* »

17h55 – 18h00: : Mr.Kazuaki Inaba , associate professor at Tokyo Institute of Technology – « *Closure speech »* »



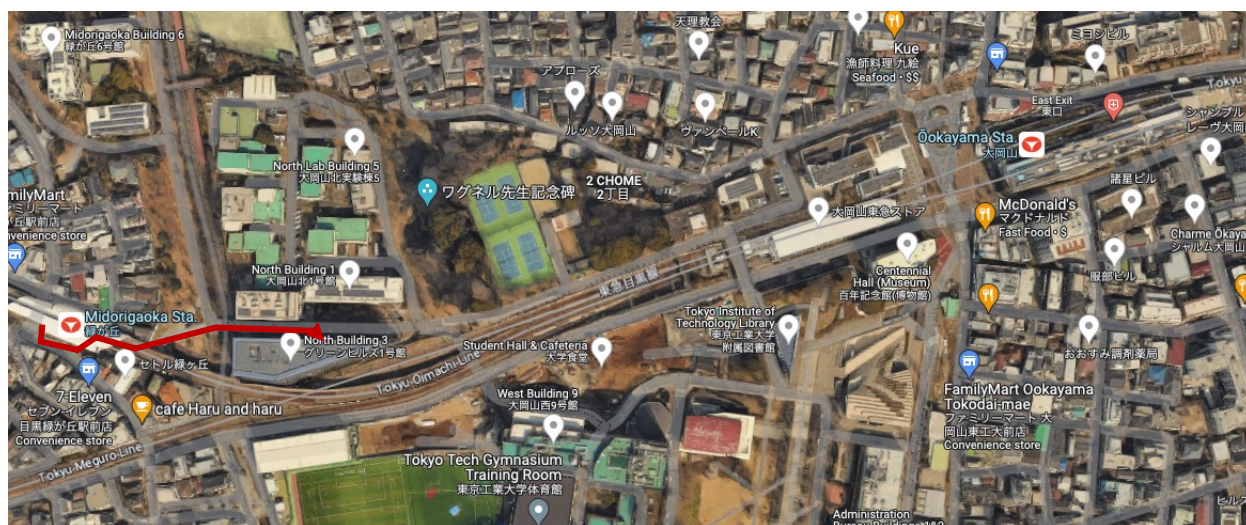
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Venue (North bldg. 3rd at Tokyo Tech Ookayama campus)



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Access from Midorigaoka station (Tokyu Oimachi Line)



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